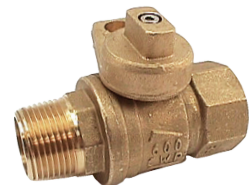
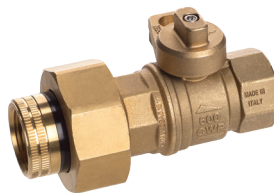
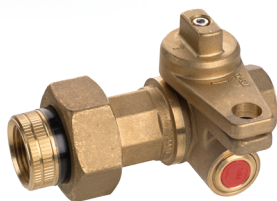
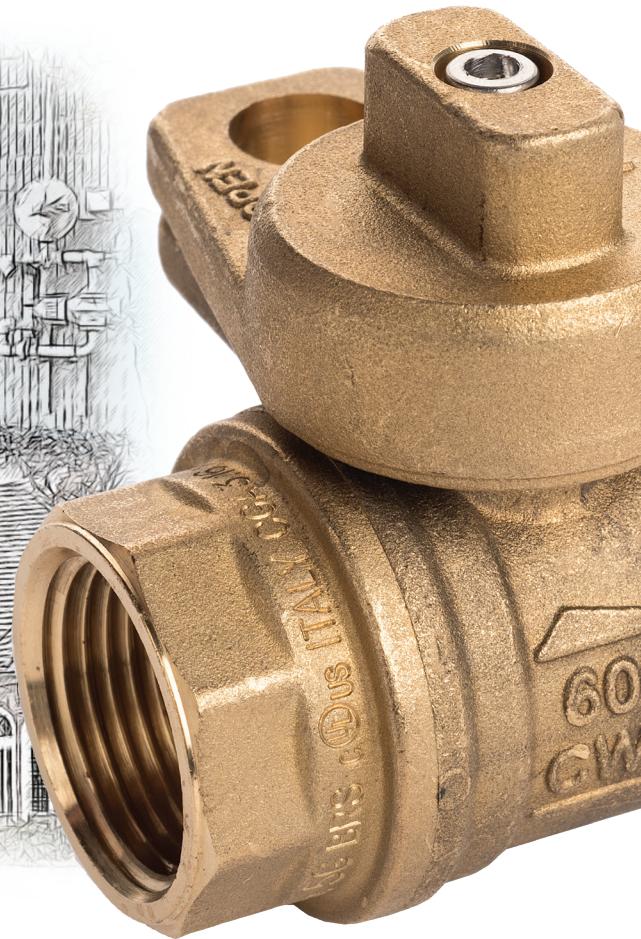


PRODUCT SELECTION

for **GAS** applications



RuB, Inc.



COPYRIGHT© June 2019 RuB, Inc. - ALL RIGHTS RESERVED

RuB, Inc. endeavors to provide comprehensive information about the installation, maintenance and operation of its products. For more details or clarification, please contact us. **RuB**, Inc. reserves the right to change or modify product design, construction, specifications, materials or the information herein without prior notice and without incurring any obligation to make such changes and modifications on products previously or subsequently sold. Content of this document is proprietary to **RuB**, Inc. and it may not be copied in part or in whole without prior written authorization. Recommendations on application design and material selection are based on available technical data and are offered as suggestions only. Each user should make his/her own tests to determine the suitability for his/her own particular use. **RuB**, Inc. gives no express or implied warranties concerning the form, fit, or function of a product in any application. RuB, Inc. does not accept liability for errors or omissions.

Any undated reference to a code or standard shall be interpreted as referring to the latest edition.

RuB and triangles are all registered trademarks of our property. Other logos or trademarks are property of respective owners.

For complete disclaimer: www.rubinc.com/disclaimer

MEETING STANDARDS IS OUR STANDARD

RUB Inc., located in Shakopee – MN, is the North American Distribution Center for **RuB** hot forged brass shut-off valves and actuators with a focus on industrial, MRO, OEM and automotive applications.

The Italian headquarters is a family owned company that has grown globally by continuously studying the market requirements and by exceeding customer needs.



RUB, Inc. - MN, USA

Many major international manufacturers rely on **RUB** products and great emphasis is put on quality: ISO 9001: 2015 and PED plant compliance. We offer a verified package of Quality Assurance that is based on testing services and state of the art technology. We perform a unique 100% 24-hour dual seal test on every valve before it is released from manufacturing and has gained several product approvals for gas and water applications issued by various code/testing

organizations throughout the world. Compliance to ISO 9001 is certified by Lloyd's Register. Manufacturing Quality products is our top priority and efficiency and automation are found everywhere with a continuing allocation of investments geared toward providing a manufacturing edge to enhance our ability to compete in the demanding markets of today.

Our products are designed to exceed specifications and to reliably perform service requirements.

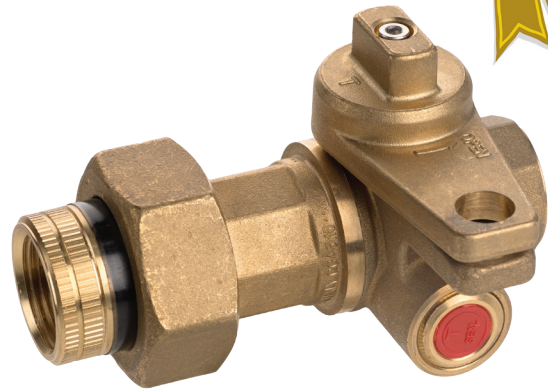
Our engineering team is relentless in striving for continuous improvement and identifying innovative solutions as well as creative and useful options for products and accessories.

Both team members and management are committed to the company's long term global strategy of making pursuit of excellence our #1 priority. Our team believes customers are long term partners and happily stands ready to help on any inquiry, question or feedback regarding standard products, special applications, custom products or OEM products. **RUB's** motto ("**Meeting standards is our standard**") is not a mere slogan: it is our philosophy of life.



s.80 SurePass

3/4"-1" full port 175 psi
bypass gas meter valve



One quick turn switches valve from normal metered flow to bypass mode for rapid on-line servicing of meter or regulator.
Water installations where two different materials meet (such as steel and brass) may create galvanic corrosion.
RUB dielectric valve configuration prevents this phenomenon and offers you a safe, long lasting performance.

Quality:

- No metal-to-metal moving parts
- No maintenance or lubrication ever required
- Every valve production tested twice for internal or external leakage
- Meets all applicable parts of DoT 192
- Customer service never interrupted
- Lockwing clearly shows ball position
- Chrome plated brass ball
- Gas theft discouraged by plastic security plug in bypass port and port inaccessible when barrel lock in use

Body:

- Rust-proof forged brass body, ball, stem and lockwing

Stem:

- Two FPM O-rings at the stem for maximum safety, eliminate gas emissions

Sealing:

- Pure PTFE seats with flexible-lip design

Threads:

- NPT taper ANSI B1.20.1 female by dielectric union female threads

Flow:

- Full port to DIN 3357 for maximum flow
- Full 100 SCFH gas flow during bypassing

Handle:

- Tamper proof lockwing
- Single lever operation for positive switch from metering to bypassing

Working pressure and temperature:

- 175 PSI non-shock cold working pressure
- -40°F / +350°F
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

Options:

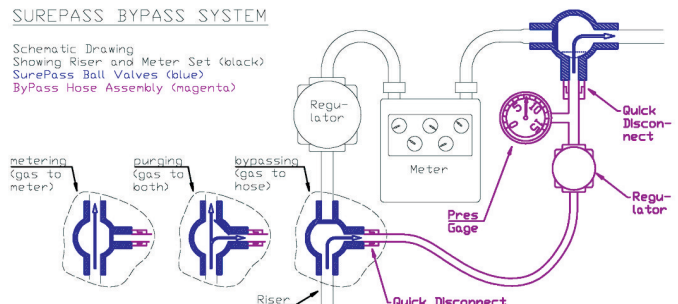
- Painted gray
- By-pass hose assembly
- Dielectric union-end long or short pattern

Tamper proof seal



SUREPASS BYPASS SYSTEM

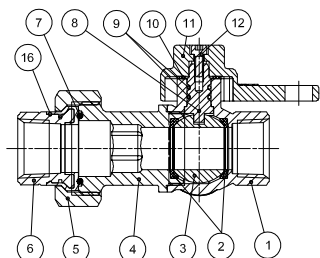
Schematic Drawing
Showing Riser and Meter Set (black)
SurePass Ball Valves (blue)
ByPass Hose Assembly (magenta)



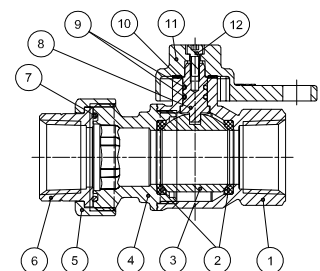
Approved by or in compliance with:

- Canadian standards Association (United States, Canada) - ASME B16.33 & B16.44, CGA 3.16 & CR91-002
- GOST-R (Russia)
- Hygiene and epidemic center in Moscow city (Russia)
- RoHS Compliant (EU)

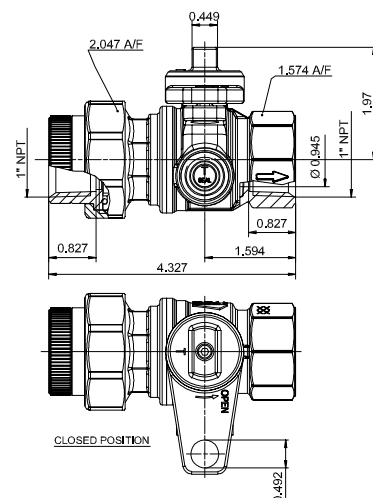
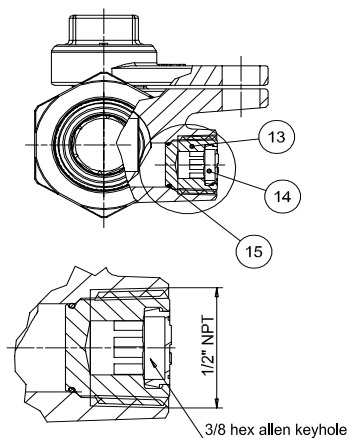
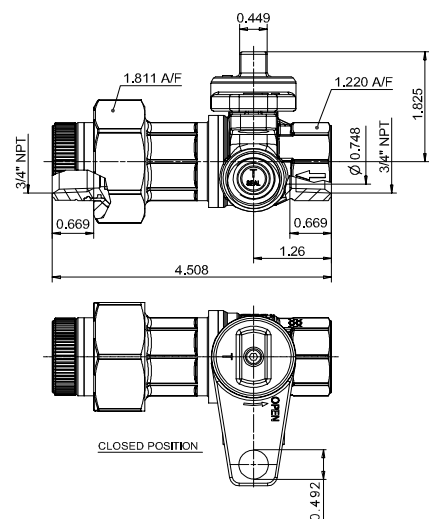
NOTE: approvals apply to specific configurations/sizes only.



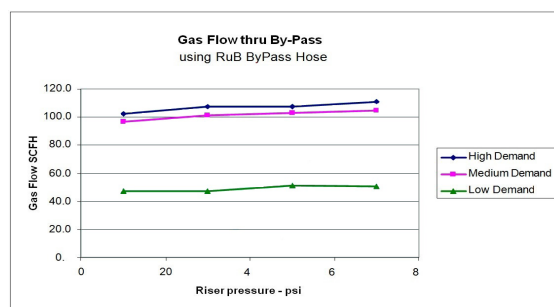
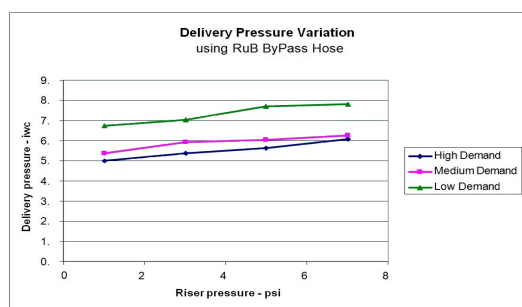
S80E43BS



S80F43BL



DN shows the nominal flow diameter. Actual flow diameter complies with full port DIN 3357 part 4.



s.80 NPT

full port 3/4"-2"
hot forged brass gas meter valve
with tamper proof lockwing



Quality:

- 24h 100% seal test guaranteed
- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- No maintenance ever required
- Lockwing clearly shows ball position
- Silicone-free lubricant on all seals
- Chrome plated brass ball for longer life
- Handle stops on body to avoid stresses at stem

Body:

- Hot forged sand blasted, unplated brass body and cap sealed with Loctite® or equivalent thread sealant
- Special design to combine newest technologies in valve and traditional gas-cock features
- Finest brass according to EN 12165 and EN 12164 (formerly DIN 17660 and UNI 5705-65) specifications

Stem:

- Blowout-proof nickel plated brass stem
- Two FPM O-rings at the stem for maximum safety

Sealing:

- Pure PTFE self-lubricating seats with flexible-lip design

Threads:

- NPT taper ANSI B.1.20.1 female by female threads

Flow:

- Full port to DIN 3357 for maximum flow

Handle:

- Hot forged brass tamper proof lockwing

Working pressure and temperature:

- 600 PSI non-shock cold working pressure
- -40°F / +350°F
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

Options:

- Male by female NPT threads

Upon request:

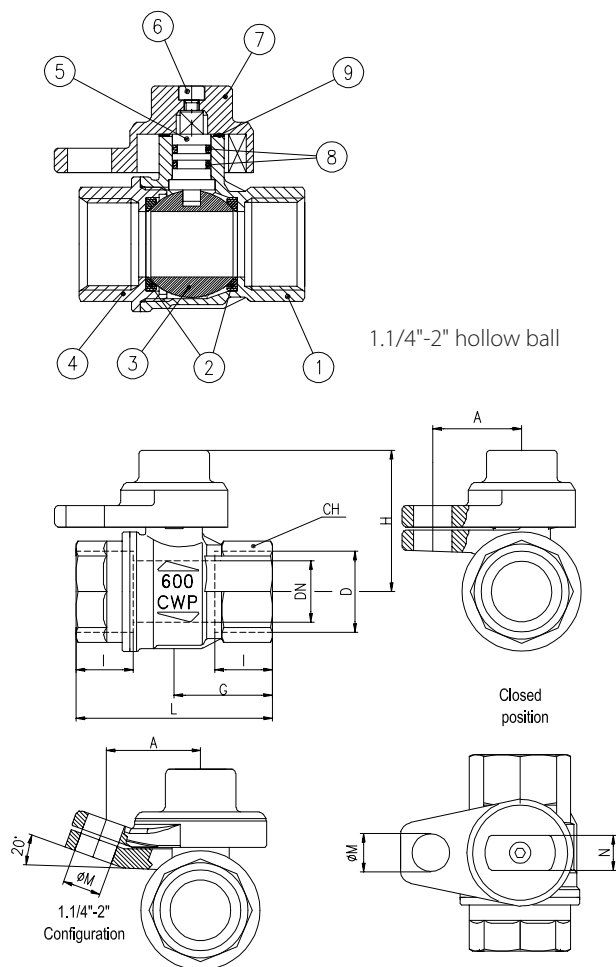
- Painted gray



Approved by or in compliance with:

- Canadian standards Association (United States, Canada) - ASME B16.33 & B16.44, CGA 3.16 & CR91-002
- GOST-R (Russia)
- Hygiene and epidemic center in Moscow city (Russia)
- RoHS Compliant (EU)
- Underwriters Laboratories (United States & Canada) – UL 125 & UL 842

NOTE: approvals and standards apply to specific configurations/sizes only.

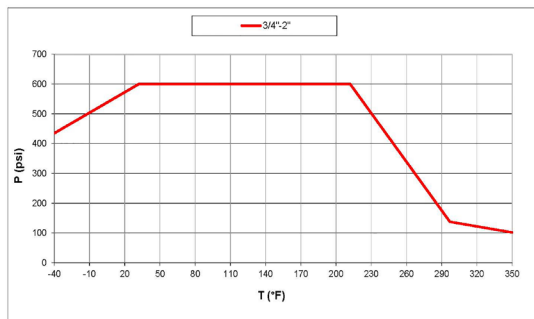


DN shows the nominal flow diameter. Actual flow diameter complies with full port DIN 3357 part 4.

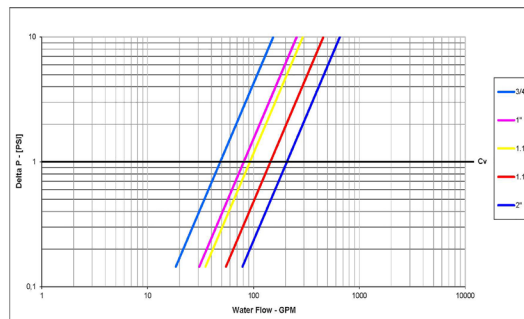
Part description	Q.ty	Material
1 Unplated NPT body	1	CW617N
2 Seat	2	PTFE
3 Chrome plated ball	1	CW617N
4 Unplated NPT end-cap	1	CW617N
5 Unplated stem O-ring design	1	CW617N
6 Stainless steel screw	1	AISI304
7 Unplated lockwing	1	CW617N
8 O-Ring	2	FPM
9 Washer (from 3/4" to 2")	1	PTFE glass filled 25%

Code	S80E41	S80F41	S80G41	S80H41	S80I41
D (inch)	3/4	1	1 1/4	1 1/2	2
DN (inch)	0.787	0.984	1.259	1.574	1.968
I (inch)	0.669	0.826	0.905	0.905	1.043
L (inch)	2.519	3.188	3.661	4.015	4.763
G (inch)	1.259	1.594	1.830	2.007	2.381
A (inch)	1.142	1.142	1.208	1.208	1.208
H (inch)	1.801	1.958	2.519	2.756	3.031
M (inch)	0.492	0.492	0.472	0.472	0.472
N (inch)	0.449	0.449	0.563	0.563	0.563
CH (inch)	1.220	1.574	1.929	2.125	2.696

Pressure-temperature chart



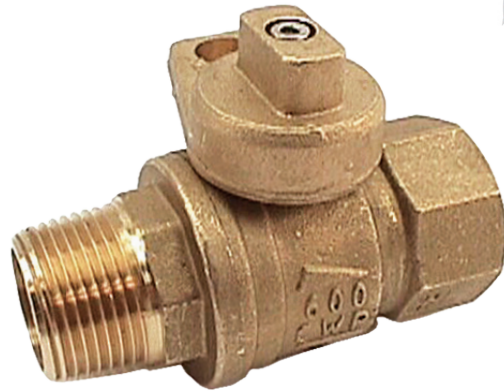
Pressure drop chart



s.8042 NPT MIPxFIP

full port 3/4"-2"

hot forged brass gas cock
with tamper proof lockwing



Quality:

- 24h 100% seal test guaranteed
- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- No maintenance ever required
- Lockwing clearly shows ball position
- Silicone-free lubricant on all seals
- Chrome plated brass ball for longer life
- Handle stops on body to avoid stresses at stem

Body:

- Hot forged sand blasted, unplated brass body and cap sealed with Loctite® or equivalent thread sealant
- Special design to combine newest technologies in valve and traditional gas-cock features
- Finest brass according to EN 12165 and EN 12164 (formerly DIN 17660 and UNI 5705-65) specifications

Stem:

- Blowout-proof nickel plated brass stem
- Two FPM O-rings at the stem for maximum safety

Sealing:

- Pure PTFE self-lubricating seats with flexible-lip design

Threads:

- NPT taper ANSI B.1.20.1 male by female threads

Flow:

- Full port to DIN 3357 for maximum flow

Handle:

- Hot forged brass tamper proof lockwing

Working pressure and temperature:

- 600 PSI non-shock cold working pressure
- -40°F / +350°F
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

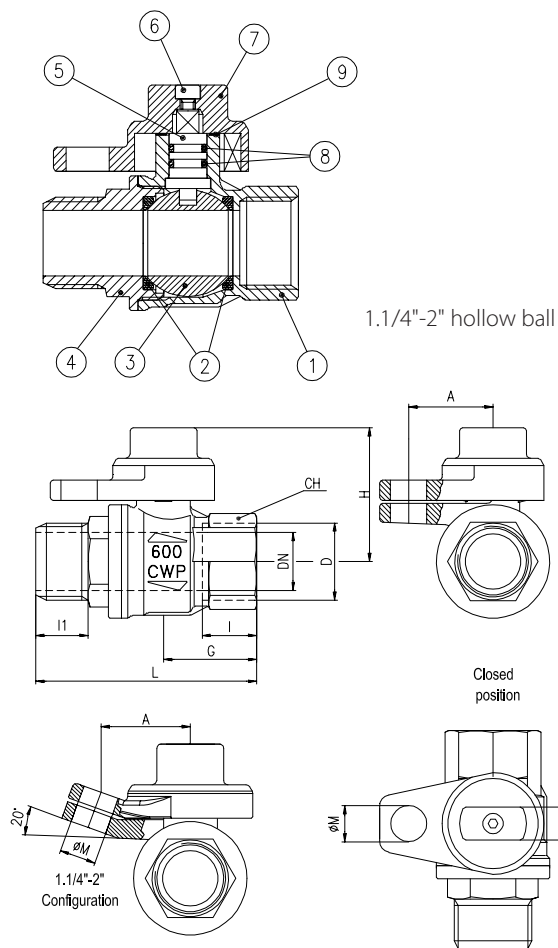
Options:

- Female by female NPT threads

Approved by or in compliance with:

- Canadian standards Association (United States, Canada) – ASME B16.33 & B16.44, CGA 3.16 & CR91-002
- GOST-R (Russia)
- Hygiene and epidemic center in Moscow city (Russia)
- RoHS Compliant (EU)
- Underwriters Laboratories (United States & Canada) – UL 125 & UL 842

NOTE: approvals and standards apply to specific configurations/sizes only.

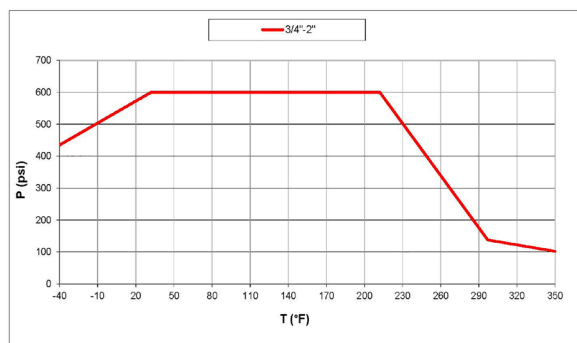


	Part description	Q.ty	Material
1	Unplated NPT body	1	CW617N
2	Seat	2	PTFE
3	Chrome plated ball	1	CW617N
4	Unplated NPT male end-cap	1	CW617N
5	Unplated stem O-ring design	1	CW617N
6	Stainless steel screw	1	AISI304
7	Unplated locking wing	1	CW617N
8	O-Ring	2	FPM
9	Washer (from 3/4" to 2")	1	PTFE glass filled 25%

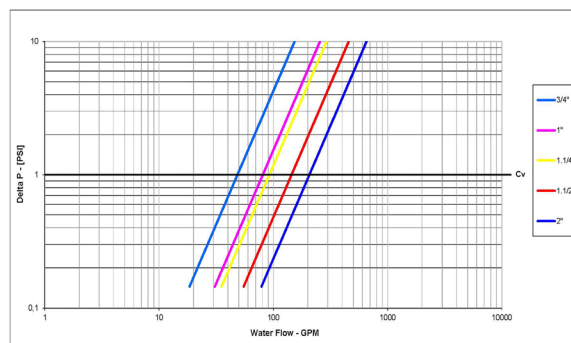
Code	S80E42	S80F42	S80G42	S80H42	S80I42
D (inch)	3/4	1	1 1/4	1 1/2	2
DN (inch)	0.787	0.984	1.259	1.574	1.968
I (inch)	0.669	0.826	0.905	0.905	1.043
I1 (inch)	0.709	0.866	0.945	0.945	1.083
L (inch)	2.992	3.642	4.173	4.449	5.236
G (inch)	1.259	1.594	1.830	2.007	2.381
A (inch)	1.142	1.142	1.208	1.208	1.208
H (inch)	1.801	1.958	2.519	2.756	3.031
M (inch)	0.492	0.492	0.472	0.472	0.472
N (inch)	0.449	0.449	0.563	0.563	0.563
CH (inch)	1.220	1.574	1.929	2.125	2.696

DN shows the nominal flow diameter. Actual flow diameter complies with full port DIN 3357 part 4.

Pressure-temperature chart



Pressure drop chart

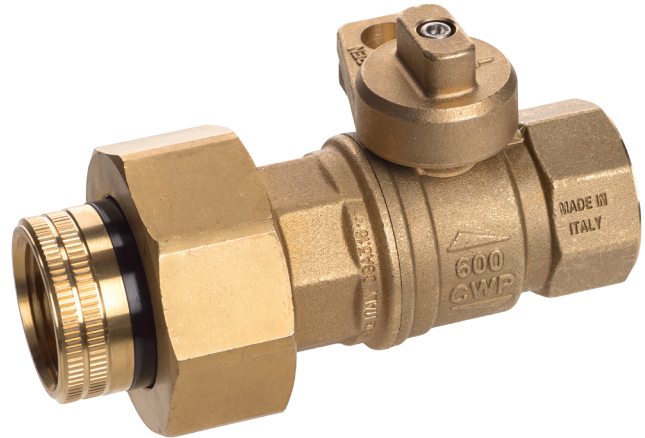


s.8043 NPT dielectric

full port 3/4"-1.1/4"
hot forged brass ball meter valve
with tamper proof lockwing



Water installations where two different materials meet (such as steel and brass) may create galvanic corrosion. **RuB** dielectric valve configuration prevents this phenomenon and offers you a safe, long lasting performance.



Quality:

- 24h 100% seal test guaranteed
- No metal-to-metal moving parts
- No maintenance ever required
- Lockwing clearly shows ball position
- Silicone-free lubricant on all seals
- Chrome plated brass ball for longer life
- Handle stops on body to avoid stresses at stem

Body:

- Hot forged sand blasted, unplated brass body and cap sealed with Loctite® or equivalent thread sealant
- Special design to combine newest technologies in valve and traditional gas-cock features
- Finest brass according to EN 12165 and EN 12164 (formerly DIN 17660 and UNI 5705-65) specifications

Stem:

- Blowout-proof nickel plated brass stem
- Two FPM O-rings at the stem for maximum safety

Sealing:

- Pure PTFE self-lubricating seats with flexible-lip design

Threads:

- NPT taper ANSI B1.20.1 female by dielectric union female threads

Flow:

- Full port to DIN 3357 for maximum flow

Handle:

- Hot forged brass tamper proof lockwing

Working pressure and temperature:

- 600 PSI non-shock cold working pressure
- -40°F / +350°F
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

Options:

- Painted gray
- Dielectric union end long or short pattern

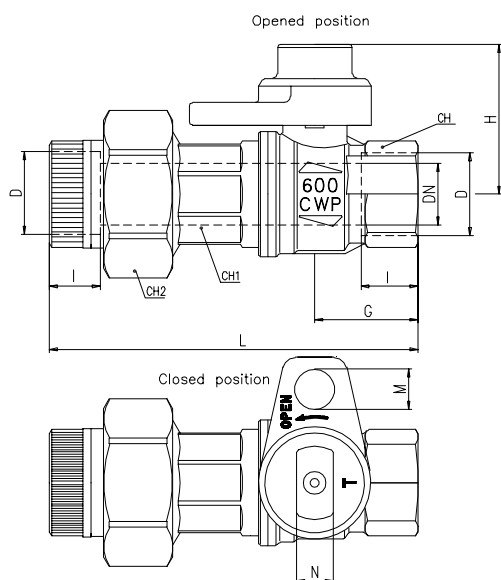
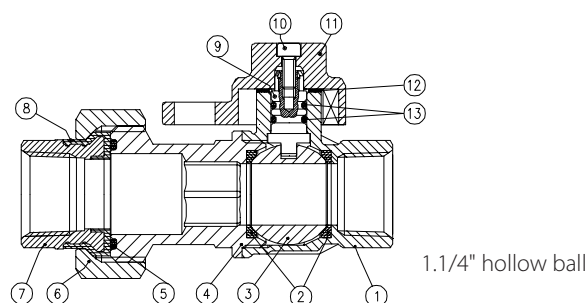
Upon request:

- See s.80

Approved by or in compliance with:

- Canadian standards Association (United States, Canada) – ASME B16.33 & B16.44, CGA 3.16 & CR91-002
- GOST-R (Russia)
- Hygiene and epidemic center in Moscow city (Russia)
- RoHS Compliant (EU)
- Underwriters Laboratories (United States & Canada) – UL 125 & UL 842

NOTE: approvals and standards apply to specific configurations/sizes only.



DN shows the nominal flow diameter. Actual flow diameter complies with full port DIN 3357 part 4.

Pressure-temperature chart

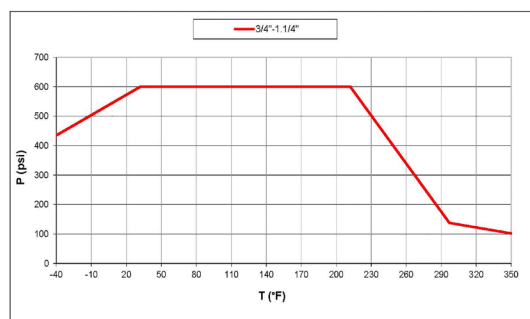
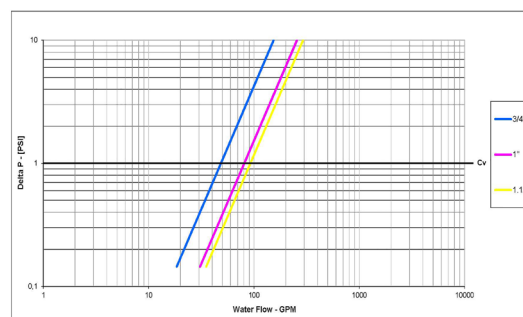


Chart applies to valve

Part description	Q.ty	Material
1 Unplated body	1	CW617N
2 Seat	2	PTFE
3 Chrome plated ball	1	CW617N
4 Unplated spacer	1	CW617N
5 Tail piece O-Ring	1	FPM
6 Unplated nut	1	CW617N
7 Dielectric tail piece	1	CW617N
8 Insulation	1	Polyamide
9 Unplated stem O-ring design	1	CW617N
10 Stainless steel screw	1	AISI304
11 Unplated lockwing	1	CW617N
12 Washer	1	PTFE glass filled 25%
13 Stem O-ring	2	FPM

Code	S80E43	S80F43	S80G43
D (inch)	3/4	1	1 1/4
DN (inch)	0.748	0.945	1.181
I (inch)	0.669	0.826	0.905
L (inch)	4.507	5.157	5.236
G (inch)	1.260	1.594	1.831
A (inch)	1.141	1.141	1.209
H (inch)	1.831	1.988	2.559
M (inch)	0.492	0.492	0.472
N (inch)	0.449	0.449	0.563
CH (inch)	1.220	1.575	1.929
CH1 (inch)	1.220	1.575	1.929
CH2 (inch)	2.047	2.401	2.441

Pressure drop chart



s.82 NPT side drain

full port 1/2"-2"
hot forged brass ball valve



Quality:

- 24h 100% seal test guaranteed
- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- No maintenance ever required
- Handle clearly shows ball position
- Silicone-free lubricant on all seals
- Chrome plated brass ball for longer life
- Handle stops on body to avoid stresses at stem

Body:

- Hot forged sand blasted, unplated brass body and cap sealed with Loctite® or equivalent thread sealant
- Side drain allows easy and safe downstream line venting
- Finest brass according to EN 12165 and EN 12164 (formerly DIN 17660 and UNI 5705-65) specifications

Stem:

- Blowout-proof nickel plated brass stem
- Two FPM O-rings at the stem for maximum safety

Sealing:

- Pure PTFE self-lubricating seats with flexible-lip design



Threads:

- NPT taper ANSI B.1.20.1 female by female threads
- 1/4" NPT side tap

Flow:

- Full port to DIN 3357 for maximum flow

Handle:

- Geomet® carbon steel handle with thick PVC dip coating. Handle coating offers both thermal and electrical protection
- **WARNING:** do not exceed reasonable temperature and/or electrical load
- Handle removable with valve in service

Working pressure and temperature:

- 600 PSI non-shock cold working pressure
- -40°F / +350°F
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

Options:

- Stem extension
- T-handle
- Oval lockable handle
- AISI 430 stainless steel handle
- Patented locking device
- Stubby handle
- **RuB** memory stop designed to be installed with our stubby handle

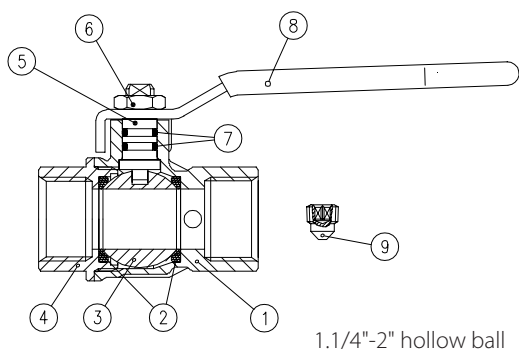
Upon request:

- AISI 316 stainless steel ball and/or stem
- Glass filled PTFE seals
- Custom design
- Dual side drain port

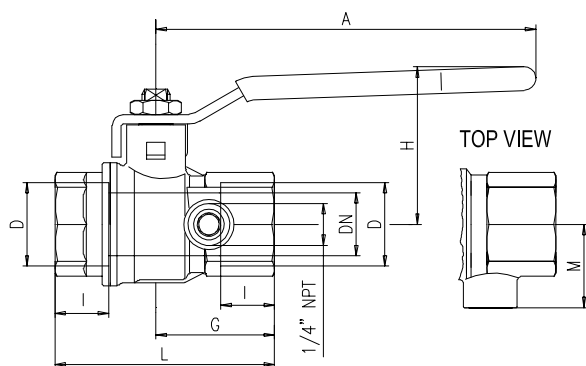
Approved by or in compliance with:

- Canadian standards Association (United States, Canada) – ANSI Z21.15, ASME B16.44, CGA 9.1-M97 & CR91-002
- GOST-R (Russia)
- Hygiene and epidemic center in Moscow city (Russia)
- RoHS Compliant (EU)
- Underwriters Laboratories (United States & Canada) – UL 125 & UL 842

NOTE: approvals and standards apply to specific configurations/sizes only.



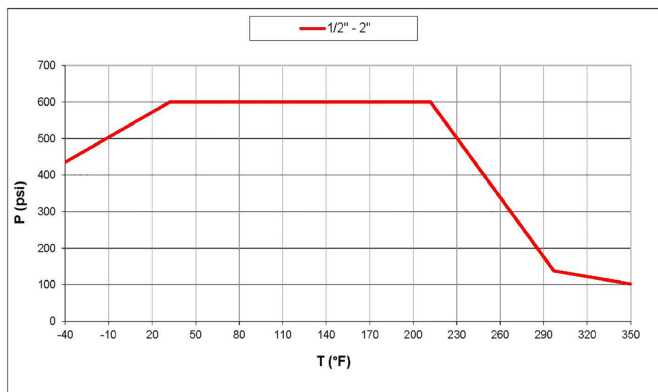
	Part description	Q.ty	Material
1	Unplated body	1	CW617N
2	Seat	2	PTFE
3	Chrome plated ball	1	CW617N
4	Unplated end-cap	1	CW617N
5	Nickel plated stem O-ring design	1	CW617N
6	Geomet® nut	1	CB4FF
7	O-Ring	2	FPM
8	Yellow PVC coated Geomet® steel handle	1	DD11
9	Unplated plug	1	CW617N



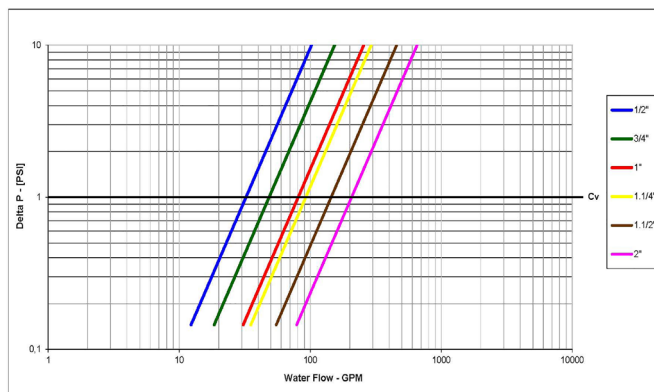
Code	S82D41	S82E41	S82F41	S82G41	S82H41	S82I41
D (inch)	1/2	3/4	1	1 1/4	1 1/2	2
DN (inch)	0.590	0.787	0.984	1.259	1.574	1.968
I (inch)	0.610	0.669	0.826	0.905	0.905	1.043
L (inch)	2.559	2.736	3.405	3.878	4.232	4.960
G (inch)	1.397	1.476	1.811	2.047	2.224	2.578
A (inch)	3.937	4.724	4.724	6.220	6.220	6.220
H (inch)	1.679	1.956	2.114	2.858	3.094	3.370
M (inch)	0.964	1.063	1.200	1.338	1.516	1.752
CH (inch)	0.984	1.220	1.574	1.929	2.125	2.696

DN shows the nominal flow diameter. Actual flow diameter complies with full port DIN 3357 part 4.

Pressure-temperature chart

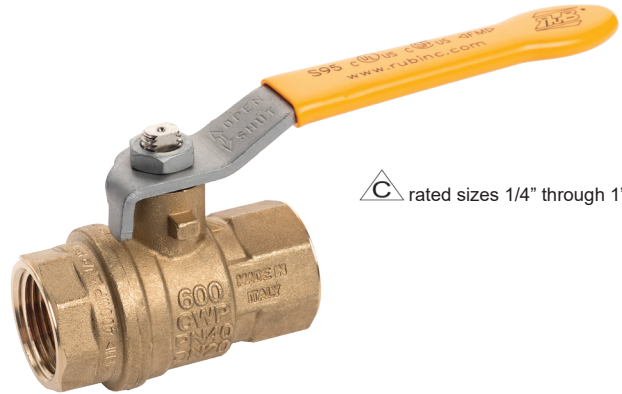



Pressure drop chart



s.95 NPT

full port 1/4"-4" hot forged brass ball valve



 rated sizes 1/4" through 1"

Quality:

- 24h 100% seal test guaranteed
- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- No maintenance ever required
- Handle clearly shows ball position
- Silicone-free lubricant on all seals
- Chrome plated brass ball for longer life
- Handle stops on body to avoid stresses at stem

Body:

- Hot forged sand blasted, unplated brass body and cap sealed with Loctite® or equivalent thread sealant
- Finest brass according to EN 12165 and EN 12164 (formerly DIN 17660 and UNI 5705-65) specifications

Stem:

- Blowout-proof nickel plated brass stem
- Two FPM O-rings at the stem for maximum safety

Sealing:

- Pure PTFE self-lubricating seats with flexible-lip design

Threads:

- NPT taper ANSI B.1.20.1 female by female threads



Flow:

- Full port to DIN 3357 for maximum flow

Handle:

- Geomet® carbon steel handle with thick PVC dip coating. Handle coating offers both thermal and electrical protection
- **WARNING:** do not exceed reasonable temperature and/or electrical load
- Handle removable with valve in service

Working pressure and temperature:

- 600 PSI up to 2", 450 PSI over 2" non-shock cold working pressure
- -40°F / +350°F
- **WARNING:** freezing of the fluid in the installation may severely damage the valve

Options up to 2" size:

- Stem extension
- T-handle
- AISI 430 stainless steel handle
- Oval lockable handle up to 2", round over 2"
- Patented locking device for valves up to 4"
- Stubby handle
- **RuB** memory stop designed to be installed with our stubby handle

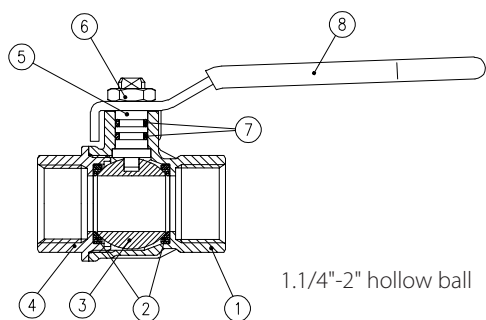
Upon request:

- AISI 316 stainless steel ball
- Glass filled PTFE seals
- Custom design
- Special configuration for industrial oxygen application

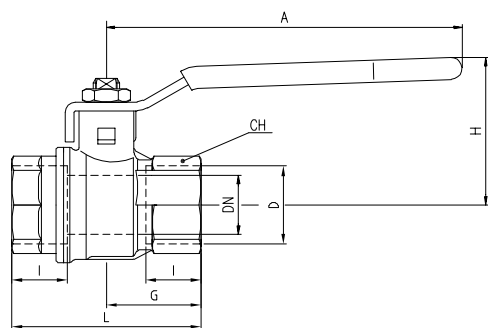
Approved by or in compliance with:

- Canadian standards Association (United States, Canada) – ANSI Z21.15, ASME B16.33 & B16.44, CGA 3.16 & 9.1-M97 & CR91-002
- Factory Mutual (United States)
- GOST-R (Russia)
- Hygiene and epidemic center in Moscow city (Russia)
- RoHS Compliant (EU)
- Underwriters Laboratories (United States & Canada) – UL 125 & UL 842
- Meeting WW-V-35C Federal U.S. Specification

NOTE: approvals and standards apply to specific configurations/sizes only.



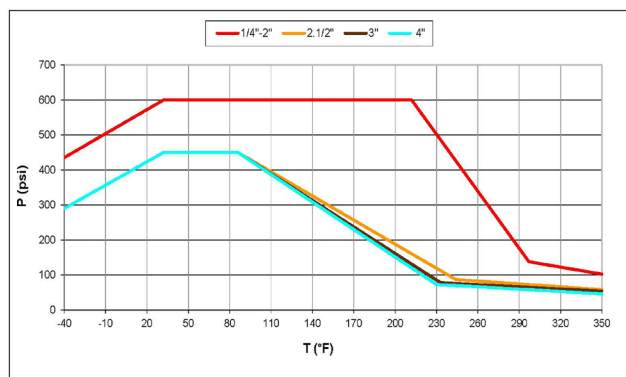
	Part description	Q.ty	Material
1	Unplated NPT body	1	CW617N
2	Seat	2	PTFE
3	Chrome plated ball	1	CW617N
4	Unplated NPT end-cap	1	CW617N
5	Nickel plated stem O-ring design	1	CW617N
6	Geomet® nut	1	CB4FF
7	O-Ring	2	FPM
8	Yellow PVC coated Geomet® steel handle	1	DD11



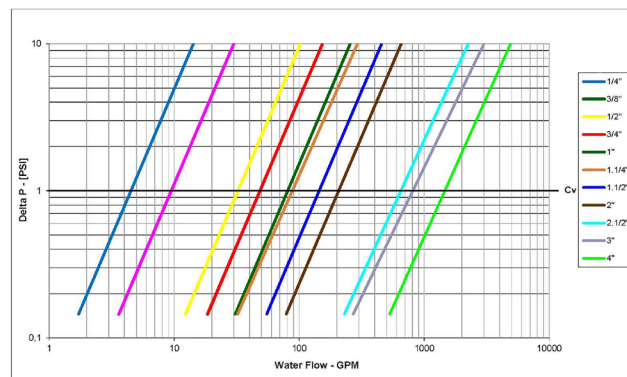
Code	S95B41	S95C41	S95D41	S95E41	S95F41	S95G41	S95H41	S95I41	S95L41	S95M41	S95N41
D (inch)	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
DN (inch)	0.314	0.393	0.590	0.787	0.984	1.259	1.574	1.968	2.559	3.149	3.937
I (inch)	0.472	0.472	0.610	0.669	0.826	0.905	0.905	1.043	1.260	1.377	1.633
L (inch)	1.771	1.771	2.322	2.519	3.188	3.661	4.015	4.763	6.141	6.968	8.504
G (inch)	0.885	0.885	1.161	1.259	1.594	1.830	2.007	2.381	3.070	3.484	4.252
A (inch)	3.228	3.228	3.937	4.724	4.724	6.220	6.220	6.220	10.039	10.039	10.039
H (inch)	1.563	1.563	1.695	1.988	2.153	2.988	3.236	3.500	5.196	5.511	6.062
CH (inch)	0.787	0.787	0.984	1.220	1.574	1.929	2.125	2.696	3.346	3.897	4.921

DN shows the nominal flow diameter. Actual flow diameter complies with full port DIN 3357 part 4. Stem configuration of valves over 2" is slightly different.

Pressure-temperature chart



Pressure drop chart





VALVES & ACTUATORS

RUB Inc.

4401 Dean Lakes Blvd. - Shakopee, MN 55379-2715 (USA)

Tel: +1 (952) 857 1114 - Fax: +1 (952) 857 1118

sales@rubinc.com - www.rubinc.com