

RHINO VALVES WORLDWIDE



Series 44 ISO

**Design of three pieces with plate disposition ISO 5211
for their automation.**



RHINO VALVES WORLDWIDE



SERIES 44 ISO

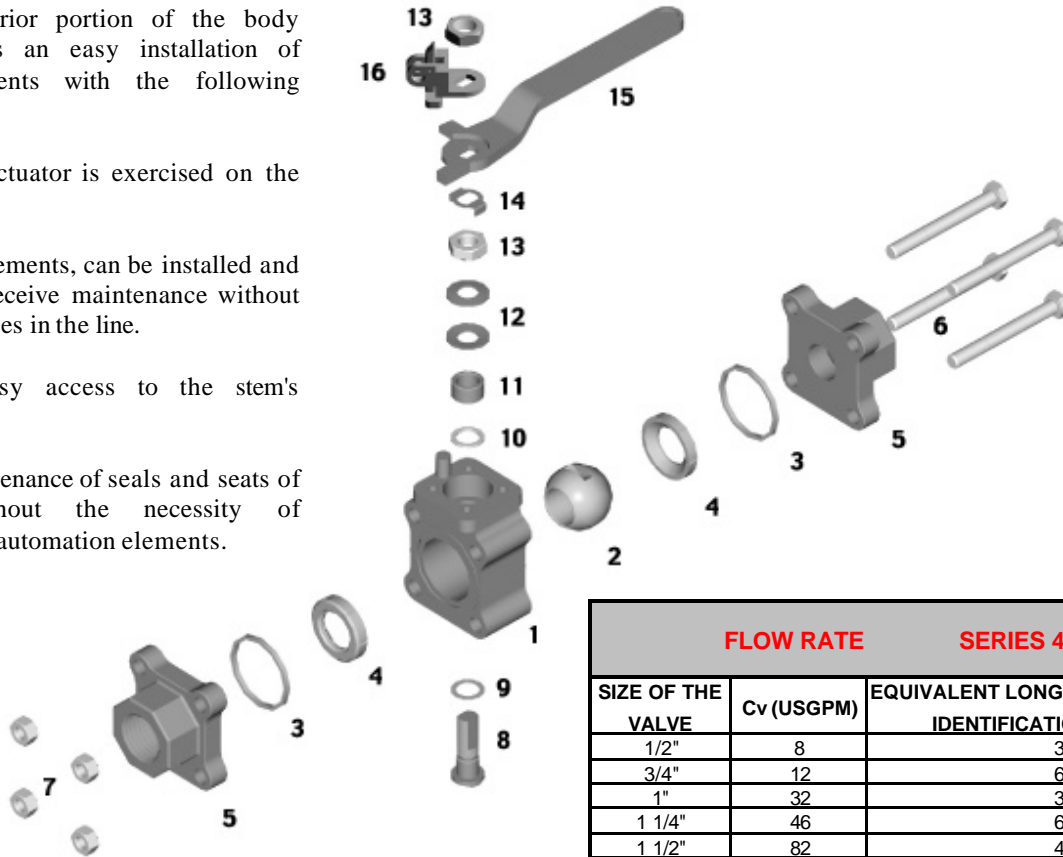
The drilled superior portion of the body (ISO5211) allows an easy installation of automation elements with the following advantages:

The load of the actuator is exercised on the body of the valve.

The automation elements, can be installed and disassembled to receive maintenance without causing disturbances in the line.

It allows an easy access to the stem's adjustment

It allows the maintenance of seals and seats of the valve without the necessity of disassembling the automation elements.



FLOW RATE		SERIES 44 ISO
SIZE OF THE VALVE	Cv (USGPM)	EQUIVALENT LONGITUDE OF THE TUBE IDENTIFICATION 40 IN FEET
1/2"	8	3.1
3/4"	12	6.3
1"	32	3.1
1 1/4"	46	6.3
1 1/2"	82	4.3
2"	120	7.5

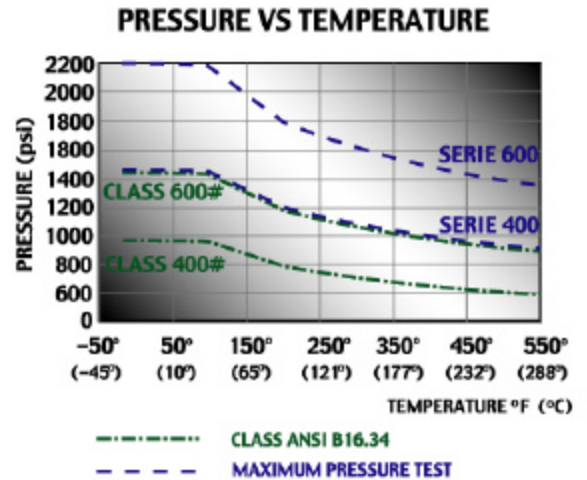
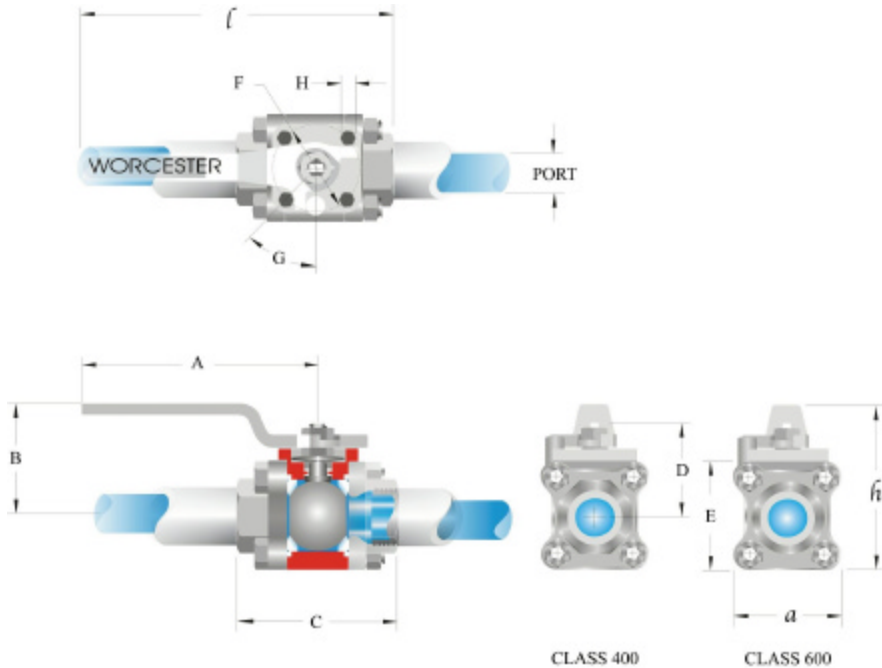
PARTS LISTING OF SERIES 44 ISO

ITEM	QUANTITY	DESCRIPTION	CARBON STEEL	STAINLESS STEEL
1	1	BODY	ASTM A216 WCB/A 105	ASTM A351 CF8M
2	1	BALL	ASTM A351 CF8M	ASTM A351 CF8M
3	2	SEAL	PTFE	PTFE
4	2	SEAT	PTFE	PTFE
5	2	PIPE END	ASTM A216 WCB/A	ASTM A351 CF8M
6	4	BOLT	SAE J429 Gr. 5	ASTM F593 TYPE A304
7	4	NUT	ASTM A194 2HM	ASTM F594 TYPE A304
8	1	STEM	AISI 1018-12L 14	AISI 316
9	1	THIN WASHER	R-PTFE 25%	R-PTFE 25%
10	1	THICK WASHER	R-PTFE 15%	R-PTFE 15%
11	1	FOLLOWER	AISI 416	AISI 416
12	2	BELLEVILLE WASHER	AISI 1075	AISI 302
13	2	RETAINING NUT	ASTM A 194 2HM	ASTM F594 TYPE A304
14	1	LOCK NUT	AISI 304	AISI 304
15	1	HANDLE	ASTM A743 CF8/CA15	ASTM A743 CF8/CA15
16	1	HANDLE LOCK (OPTIONAL)	ASTM A743 CF8/CA15	ASTM A743 CF8/CA15

RHINO VALVES WORLDWIDE



SERIES 44 ISO



The pipe is exclusively representative. They are only as reference and they are subject to changes without previous notice.
Dimension in inches.

CONDITION	CARBON STEEL	STAINLESS STEEL
ANSI CLASS # (Series 44-Octagonal Ends)	400	400
OPERATION TEMPERATURE	-20 to 100°F (-29 to 38°C)	-20 to 100°F (-29 to 38°C)
MAX. ALLOWABLE WORKING PRESSURE	990 psi (69.6 kg/cm ²)	960 psi (67.5 kg/cm ²)
MAXIMUM PRESSURE TEST	1500 psi (105 kg/cm ²)	1450 psi (102 kg/cm ²)

CONDITION	CARBON STEEL	STAINLESS STEEL
ANSI CLASS # (Series 600-Round Ends)	600	600
OPERATION TEMPERATURE	-20 to 100°F (-29 to 38°C)	-20 to 100°F (-29 to 38°C)
MAX. ALLOWABLE WORKING PRESSURE	1480 psi (104 kg/cm ²)	1440 psi (101.3 kg/cm ²)
MAXIMUM PRESSURE TEST	2225 psi (157 kg/cm ²)	2175 psi (153 kg/cm ²)

Note: Always consider the maximum, pressure allowed by the soft elements as seats and seals.

SERIES 44 ISO

SIZE	A	B	C	D	E	PORT	ISO 5211	F	G	H	Weight in Lbs.	l	h	a
1/2"	4.25	1.58	2.61	1.51	2.03	0.438	F03	1.42	45°	M4	1.43	5.56	2.45	1.75
3/4"	4.25	1.67	2.83	1.61	2.26	0.563	F03	1.42	45°	M4	1.81	5.67	2.67	2.00
1"	5.75	2.21	3.72	2.17	2.76	0.813	F04	1.65	45°	M4	3.51	7.66	3.40	2.38
1 1/4"	5.75	2.40	4.22	2.35	3.07	1.000	F04	1.65	45°	M4	4.75	7.86	3.71	2.63
1 1/2"	7.00	3.02	4.56	2.89	3.66	1.250	F05	1.97	45°	M5	7.79	9.28	4.62	3.19
2"	7.00	3.21	5.01	3.07	4.03	1.500	F05	1.97	45°	M5	10.20	9.51	5.00	3.57

RHINO VALVES WORLDWIDE

APPLICABLE INTERNATIONAL STANDARDS



APPLICABLE INTERNATIONAL STANDARDS

Norm	Description	Applicable in	Size	Content
NACE MR-01-75	Valves that require special resistance to fractures and hydrosulfuric attack	All the models except Brass	1/4" - 8"	For sour environment, stainless ferrous and not ferrous metals
ANSI/FCI 70-2	for seat leaks of control valves. Class VI	All the models	1/4" - 8"	(pneumatic) trapped air test
MSS-SP-26	System of Marking Standard	All the models except series 42, 43, 1000	1/4" - 8"	Size-thread-temperature. Pressure-material-Nom. Casting Heat. No.
MSS-SP-55	Visual inspection Method acceptance of cast steel valves	All the models except Brass	1/2" - 8"	12 types of frequent surface irregularities identifiable by comparative visual inspection
API 6D	Specification for piping and valves	All the models	2" - 8"	Quality system according to American Petroleum Institute
API 607	"Fire Safe" testing	All the models except series 42, 43 and 1000	1/4" - 8"	Available certificate in some valves
API 598	Inspection and test of valves	All the models	1/4" - 2"	Hydrostatic and pneumatic inspection
ANSI B 16.5	Flanges for steel pipe lines	All the flanged models	1/2" - 8"	Dimension-material-range. Pressure temperature-facing. Different types of flanges
ANSI B 16.10	End to end dimensions of valves with flanges and/or to weld ends	All the flanged models and weld end models	1/2" - 8"	Face to face Dimensions
ANSI B 16.11	End Dimensions: S.W. (Socket Weld) S.E. (Threaded)	All the models except flanged	1/4" - 6"	Face to face Dimensions
ANSI B 16.34	Steel valves	All the models	1/4" - 14"	Wall Thickness designs. Material-specifications. Range-Pressure-Temperature. Hydrostatic Test
ANSI B 16.25	Buttweld ends	All the models except flanged	1/2" - 6"	Angle of machine beveling and O.D. And I.D.

RHINO VALVES WORLDWIDE



HOW TO ORDER

HOW TO ORDER TO RHINO VALVES

Valve Size	Type	Series	Body, pipe ends	M a t e r i a l			Ends
				Ball Steam	Seat	Body Seals	
1 1/2"	D	4	4	6	T	T	SW
1/4"	- Normal	4 - 400 (44)	1 - Brass	1 - Brass	B - Buna	B - Buna	SE - Screw End
3/8"	FS - Fire Safe	6 - 600	4 - Carbon Steel	4 - Carbon Steel	T - Ptfе	T - Ptfе	SW - Socket Weld
1/2"	D - Diverter	H6 - H600	6 - Stainless Steel	6 - Stainless Steel	R - Tfe	R - Tfe	BW - Butt Weld
3/4"	T - 3 Ways	42 - Mite	6L - Stainless Steel CF-3M		Y - Lubetal (Delrin)	Y - Lubetal (Delrin)	150# - Ansi 150
1"	C - Cryogenic	43 - Mass			MT - Multifil	MT - Multifil	300# - Ansi 300
1 1/4"	PT - Full Port	60 - 6000			U - Uhmwpe	U - Uhmwpe	
1 1/2"		45			D - Devlon	D - Devlon	
2"		150				G - Graphoil	
3"		151				V - Viton	
4"		152					
6"		300					
8"		302					
		10 - 1000					
		20 - 2000					
					Note : Use only one letter if body seal is to be same material as seat		

NOT ALL THE COMBINATIONS ARE AVAILABLE. SEE THE FOLLOWING TABLE AND CONSULT TO THE COMPANY OR AUTHORIZED DISTRIBUTOR FOR AVAILABILITY.

THERE ARE SOME OTHER MATERIALS, OPTIONS AND ENDS AVAILABLE

COMMON COMBINATION FOR SEALS AND SEATS MATERIALS

SERIES	SEATS	BODY SEALS	STEAM SEAL
ALL	BUNA	BUNA	RTFE
ALL	PTFE	PTFE	RTFE
ALL	RTFE	PFTE	RTFE
ALL	LUBETAL	VITON	RTFE
ALL	MULTIFIL	MULTIFIL	MULTIFIL
ALL	UHMWPE	VITON	RTFE
FS ONLY	PTFE	GRAPHOIL	GRAPHOIL
H600 ONLY	DELTRIN	VITON	DELTRIN/MULTIFIL
6000 ONLY	DELTRIN/VITON	VITON	DELTRIN/MULTIFIL