



Edmund

VALVE COMPANY (1965) LTD

API 6A VALVES



EVC
Edmund

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Edmund Valve Company (EVC) API 6A Valves provide the highest level of quality and value to the oil and gas application. Our valves have optimized flow paths and proper selection of trim style and material for a long life, proper performance and function.

EVC Valves can be used in drilling and production applications with the security and reliability of metal to metal sealing in a wide range of working pressure. All EVC valves are available in all bore sizes and pressure ratings from 2,000 PSI to 15,000 PSI. EVC Valves are offered in all API temperature classes and product specification levels PSL 1 through 4.

API 6A Temperature Rating										
	-100	-50	0	50	100	150	200	250	300	350
K		-75					180			
L			-50				180			
P				-20			180			
R	Room Temperature									
S			0			150				
T				0			180			
U								250		
X										350

Design and Manufacturing Standard – API 6A, ASME VIII, API 6FA

Face to Face Standard – API 6D, ASME B16.10

Size Range – 2 1/16” to 4 1/16”

Pressure Class – API 2000, 3000, 5000, 7000

Product Specification Level – PSL 1, 2, 3, 3G, 4

End Connection – Flanged, Butt-Weld, Socket Weld, Hub Connector

Standard Valve Trim Materials					
API 6A Material Classification	Body & Bonnet Material	Stem Material / Coating	Gate Material / Coating	Stem Material / Coating	Coke Trim / Bean
AA – General Service	Low Alloy Steel	AISI 41XX Nitrided	AISI 41XX Nitrided	AISI 41XX Nitrided	Stainless Steel & Tungsten Carbide
BB – General Service	Low Alloy Steel	AISI 410 SS Nitrided	AISI 410 SS Chrome Plated	Stellited	Stainless Steel & Tungsten Carbide
CC – General Service	AISI 410 SS	AISI 410 SS Nitrided	AISI 410 SS Chrome Plated	Stellited	Stainless Steel & Tungsten Carbide
DD – Sour Service*	Low Alloy Steel	AISI 41 XX Nickel Plated	AISI 41XX Hard Faced	Stellited	Stainless Steel & Tungsten Carbide
EE – Sour Service*	Low Alloy Steel	AISI 410 SS Nitrided	AISI 41XX Hard Faced	Stellited	Stainless Steel & Tungsten Carbide
FF – Sour Service*	AISI 410 SS	AISI 410 SS Nitrided	AISI 41XX Hard Faced	Stellited	Stainless Steel & Tungsten Carbide
HH – Sour Service*	Low Alloy Steel clad with Alloy 625 or Solid Alloy 718	Alloy 718	Alloy 718 Hard Faced	Stellited	Corrosion Resistant Alloy & Tungsten Carbide

*As defined by NACE Standard MR-01-75.
Note – Special Trims are available on request

API 6A GATE VALVE

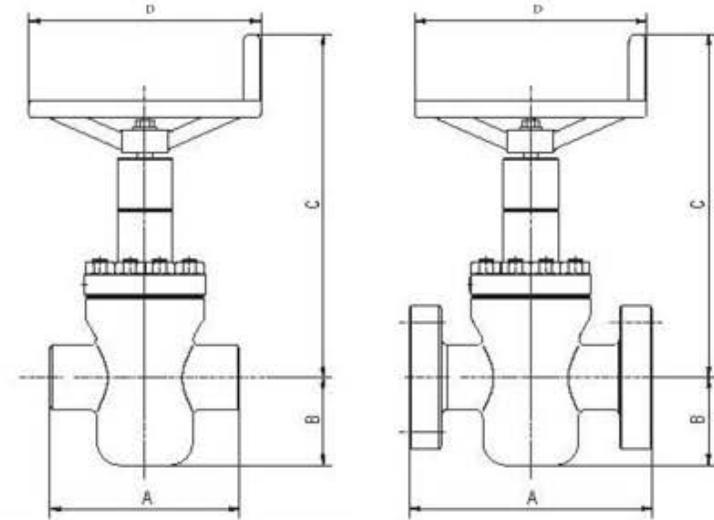
Manufactured in Cast or Forged Materials we can deliver engineered assemblies within the shortest achievable lead time. We can manufacture bespoke designs to suit specific applications and custom requirements, based on our extensive experience and working with our clients to a mutual goal is our aim on every project. All valves are held to API 6A Standards

2000 PSI Working Pressure – Flanged End							
Size	Bore	A	B	C	D	N	Weight(Kg)
2 - 1/16	52.4	295	135	515	250	13.0	50
2 - 9/16	65.0	333	165	530	250	15.5	65
3 - 1/8	80.0	359	195	585	350	20.0	90
4 - 1/16	103.2	435	235	665	350	24.5	170

3000 PSI Working Pressure – Flanged End							
Size	Bore	A	B	C	D	N	Weight(Kg)
2 - 1/16	52.4	371	135	515	350	13.0	80
2 - 9/16	65.0	422	165	530	350	15.5	105
3 - 1/8	80.0	435	195	585	350	20.0	120
4 - 1/16	103.2	511	235	665	450	24.5	215

5000 PSI Working Pressure – Flanged End							
Size	Bore	A	B	C	D	N	Weight(Kg)
2 - 1/16	52.4	371	135	515	350	13.0	80
2 - 9/16	65.0	422	165	530	350	15.5	105
3 - 1/8	80.0	473	205	585	350	20.0	140
4 - 1/16	103.2	549	255	680	450	24.5	260

10,000 PSI Working Pressure – Flanged End							
Size	Bore	A	B	C	D	N	Weight(Kg)
2 - 1/16	52.4	521	350	480	400	12.0	220
2 - 9/16	65.0	565	425	530	400	15.0	260
3 - 1/8	80.0	619	530	710	450	18.0	380
4 - 1/16	103.2	670	660	920	450	23.0	490



2000 PSI Working Pressure – Threaded End							
Size	Bore	A	B	C	D	N	Weight(Kg)
2 - 1/16	52.4	235	135	515	250	13.0	40
2 - 9/16	65.0	261	165	530	250	15.5	55
3 - 1/8	80.0	290	195	585	350	20.0	70
4 - 1/16	103.2	330	235	665	350	24.5	130

3000 PSI & 5000 PSI Working Pressure – Threaded End							
Size	Bore	A	B	C	D	N	Weight(Kg)
2 - 1/16	52.4	245	135	515	350	13.0	50
2 - 9/16	65.0	261	165	530	350	15.5	70
3 - 1/8	80.0	290	195	585	350	20.0	100
4 - 1/16	103.2	330	250	450	450	24.5	175

All dimensions are in MM

10,000 PSI Valve shall be with Rising Stem design with lower balancing stem

Expanding Style Gate Valve available on request

N - Number of turns to open the valve.

API 6A CHOKE VALVE

Edmund Valve Company manufacture both positive and adjustable Choke Valves ranging in pressure ratings up to 10,000 PSI. Each Choke Valve can be interchanged and configured in to a positive choke valve, adjustable choke valve and an actuated choke valve.

We offer Choke Valves in **Positive Bean configuration, Needle** and **Seat** configuration and **Cage Type** configuration.

Positive Bean Configuration

The most inexpensive and simplest among all choke options. It is easy to maintain at site with interchangeable features. These are rigid, heavy duty and maintenance free construction.

Needle and Seat Configuration

These are meant for variable flow. It has an externally controlled indicator showing orifice size in the increment of 1/16th inch. These are suitable for low to medium pressure drops, less severe service and applications that do not require positive shut off.

Cage Type Configuration

These are meant for the highest seal integrity with positive shutoff. Cage type construction is sub classified in to two types depending upon the severity and life of the choke.

- External / Closed Cage Configuration

Designed for severe service, high pressure, multi-phase flow and erosive service.

- Internal Cage Configuration

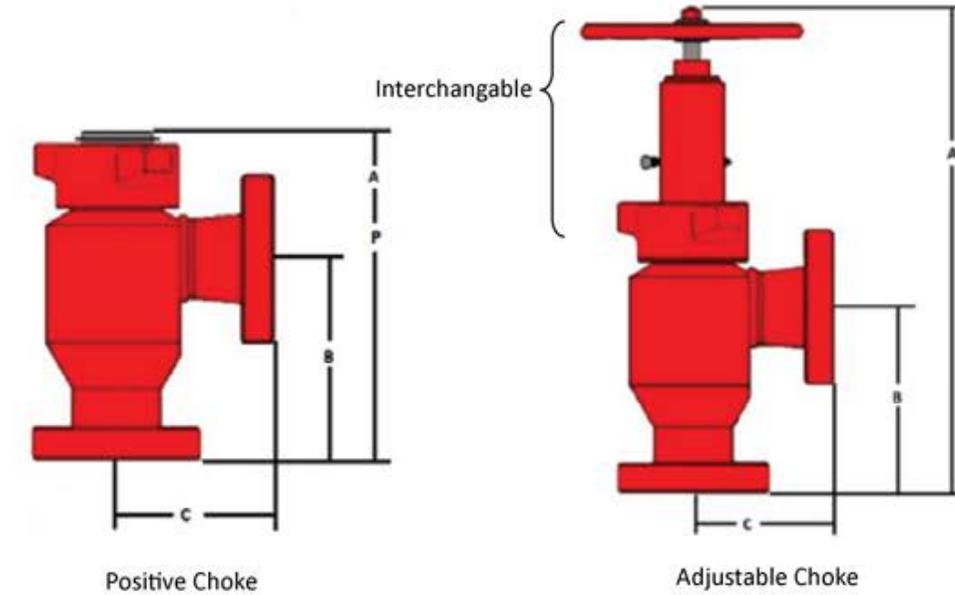
Designed for medium service, medium pressure and High flow capacity and mild erosive fluids.



Cage Type Adjustable Choke		Orifice – 1"		
Size	CWP	A	B	C
2-1/16"	5,000	610	203	175
2-1/16"	10,000	625	225	195
2-9/16"	5,000	535	210	175
2-9/16"	10,000	640	235	210
3-1/16"	10,000	660	260	190
3-1/8"	3,000	635	230	200
3-1/8"	5,000	645	245	250

Cage Type Adjustable Choke		Orifice – 1.5"		
Size	CWP	A	B	C
2-1/16"	5,000	610	203	175
2-1/16"	10,000	625	225	195
2-9/16"	5,000	650	255	205
2-9/16"	10,000	650	255	205
3-1/16"	10,000	680	280	230
3-1/8"	3,000	650	260	205
3-1/8"	5,000	650	260	205
4-1/16"	5,000	685	295	245

Cage Type Adjustable Choke		Orifice – 2"		
Size	CWP	A	B	C
2-9/16"	5,000	830	290	225
2-9/16"	10,000	840	300	265
3-1/16"	10,000	840	300	265
3-1/8"	5,000	830	290	225
4-1/16"	5,000	865	320	260
4-1/16"	10,000	830	290	260



Cage Type Adjustable Choke		Orifice – 3"		
Size	CWP	A	B	C
3-1/16"	10,000	925	295	255
3-1/8"	3,000	920	290	250
3-1/8"	5,000	920	290	250
4-1/16"	3,000	920	290	250
4-1/16"	5,000	920	290	250
4-1/16"	10,000	925	295	255

Note:

- All dimensions are in mm.
- 4" Orificies are aviallable on request
- Bonnet Seal available with two options, O-Ring Seal & Metal Seal
- ANSI Class 600 - 2500 Also Available
- All Needle Type and Cage Type Choke can be provided with actuators on request.

Needle Type & Positive Choke		Orifice – 1"			
Size	CWP	A	P	B	C
2-1/16"	5,000	545	350	203	175
2-1/16"	10,000	565	370	235	195
2-9/16"	5,000	550	355	210	180
2-9/16"	10,000	575	380	240	210
3-1/16"	10,000	595	410	260	190
3-1/8"	3,000	575	370	230	200
3-1/8"	5,000	595	380	245	250

Needle Type & Positive Choke		Orifice – 2"			
Size	CWP	A	P	B	C
2-9/16"	5,000	765	465	300	225
2-9/16"	10,000	780	445	300	265
3-1/16"	10,000	780	445	300	265
3-1/8"	5,000	765	465	300	225
4-1/16"	5,000	795	495	320	260
4-1/16"	10,000	765	470	295	255

Needle Type & Positive Choke		Orifice – 3"			
Size	CWP	A	P	B	C
3-1/16"	10,000	880	610	295	255
3-1/8"	3,000	875	595	290	250
3-1/8"	5,000	875	595	290	250
4-1/16"	3,000	875	595	290	250
4-1/16"	5,000	875	595	290	250
4-1/16"	10,000	880	610	295	255

Wellhead Equipment Christmas Tree

Edmund Valve Company provided various specifications of the wellhead equipment and accessories suitable for oil production, gas wells and more.

Wellhead and Christmas tree equipment is a very important piece of equipment for oil and gas drilling. The casing head, tubing head, oil (gas) tree of three parts are used to connect the casing string and tubing string, and the sealing between the layers of casing and tubing annulus. This can control the production wellhead pressure and adjust the oil (gas) wellhead flow, additionally these can be used in acid fracturing, injection, testing and other special operations.

Casing heads, Tubing heads, Hanger and additional parts for the valves are designed and manufactured in accordance with API 6A Standards.

Pressure ranging from 2,000 PSI to 15,000 PSI. Material Category ranging from AA – FF



Surface Safety Valve

Edmund Valve Company can provide pneumatic or hydraulic Surface Safety Valves which can meet various working conditions.

Surface safety valve (SSV) is a hydraulically actuated fail-safe gate valve for producing or testing oil and gas wells with high flow rates, high pressures, or the presence of H₂S. The SSV is used to quickly shut down the well upstream in the event of overpressure, failure, a leak in downstream equipment, or any other well emergency requiring an immediate shut down.

SSV is remotely operated by an emergency shutdown device (ESD), which can be triggered automatically by high or low pressure pilot actuators. If an emergency occurs, this feature reduces the possibility of personnel injuries.

Compliance with API-6A (PSL-3 , PR1), NACE MR0175

Working Pressure: 5,000psi ~ 15,000psi

Temperature: P ~ U

Bore Size: all popular

Hydraulic actuator: 3,000 psi working pressure and 1/2" NPT

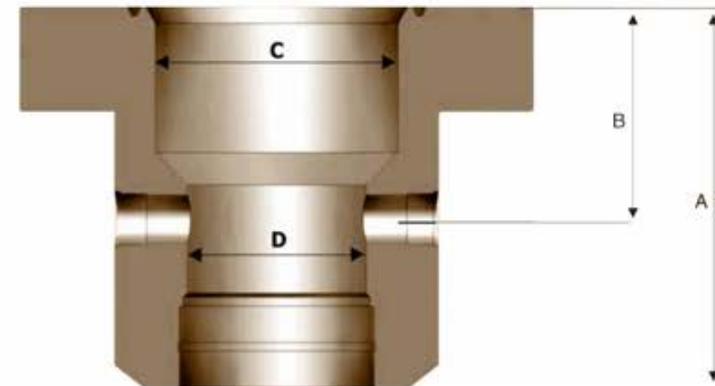
Inlet and outlet connections: API 6A flange or hammer union



Casing Head

Casing head use standard design, and can apply to all kinds of slip and mandrel type casing hanger.

- Side Outlet Connection Form:
Pipeline thread side outlet / Threaded flange side outlet, design with VR plug.
- Connection Forms between Casing Head and Surface:
Threaded bottom type / Welded bottom type / Slip bottom type



A = Overall Height B = Distance from flange face to centre line of outlet C = Bowl Diameter D = Minimum Bore

Casing Head - Specifications

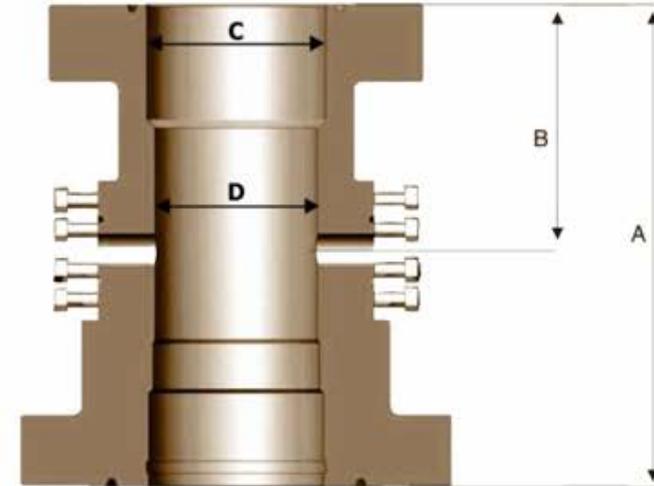
Flange Size	Working Pressure	Casing Size	A	B	C	D	Approximate Weight (kg)
11"	2000psi	9-5/8"	17"	10-1/8"	10-7/8"	9"	505
11"	3000psi	8-5/8"	17"	10-1/8"	10-7/8"	8"	535
11"	3000psi	9-5/8"	17"	10-1/8"	10-7/8"	9"	525
11"	3000psi	10-3/4"	17"	10-1/8"	10-7/8"	10"	490
11"	5000psi	8-5/8"	17"	10-1/2"	10-7/8"	8"	685
11"	5000psi	9-5/8"	17"	10-1/2"	10-7/8"	9"	680
11"	5000psi	10-3/4"	17"	10-1/2"	10-7/8"	10"	670
13-5/8"	3000psi	13-3/8"	17"	10-1/4"	13-1/2"	12-3/8"	570
13-5/8"	5000psi	13-3/8"	19"	10-1/4"	13-1/2"	19"	1000
21-1/4"	2000psi	20"	20"	10-1/4"	21-1/8"	19"	1050
20-3/4"	3000psi	20"	23"	15"	21-1/8"	19"	1322



Casing Head Spool

Casing spool use standard design, and can apply to all kinds of slip and mandrel type casing hanger.

- Side Outlet Connection Form:
Pipeline thread side outlet / Threaded flange side outlet, design with VR plug.
- Various secondary seals, such as PE, EBS, R-Bushing, CANH, single & double P seals, single & double FS seals.
- Designed with pressure test, injection and pressure release ports for easy, quick maintenance and tests



A = Overall Height B = Distance from flange face to centre line of outlet C = Bowl Diameter D = Mini Hole

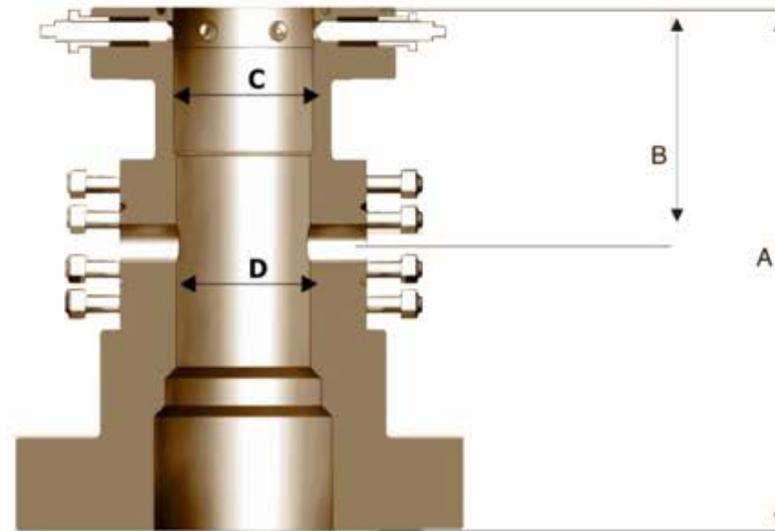
Casing Head Spool- Specifications								
Bottom Flange	Working Pressure	Top Flange	Working Pressure	A	B	C	D	Approximate Weight (kg)
11"	3000 psi	11"	3000 psi	20-5/8"	10-1/4"	10-7/8"	10"	755
11"	3000 psi	11"	5000 psi	22-1/4"	12-3/4"	10-7/8"	10"	835
11"	5000 psi	11"	5000 psi	23-7/8"	12-3/4"	10-7/8"	10"	910
11"	5000 psi	11"	10,000 psi	24-3/4"	13-5/8"	10-7/8"	10"	1210
11"	10,000 psi	11"	10,000 psi	25-5/8"	14-1/2"	10-7/8"	10"	1410
13-5/8"	3000 psi	11"	3000 psi	22-5/8"	10-1/4"	10-7/8"	10"	680
13-5/8"	3000 psi	11"	3000 psi	22-5/8"	10-1/4"	10-7/8"	10"	799
13-5/8"	3000 psi	11"	5000 psi	25-1/4"	12-3/4"	10-7/8"	12-3/8"	1140
13-5/8"	3000 psi	11"	5000 psi	25-1/4"	12-3/4"	10-7/8"	19"	1168
13-5/8"	5000 psi	11"	5000 psi	25-1/8"	12-3/4"	10-7/8"	19"	1430
13-5/8"	5000 psi	11"	10,000 psi	26"	13-1/2"	10-7/8"	19"	1631
21-1/4"	2000 psi	13-5/8"	3000 psi	26-3/4"	10-5/8"	13-1/2"	12-1/2"	1755
20-3/4"	3000 psi	13-5/8"	3000 psi	27-5/8"	10-5/8"	13-1/2"	12-1/2"	1855
20-3/4"	3000 psi	13-5/8"	3000 psi	28-5/8"	13-1/2"	13-1/2"	12-1/2"	1950



Tubing Spool

Tubing head is usually a spool with both flanged ends. It is set on the top flange of casing head to hang tubing hanger and seal the annular space between the tubing string and intermediate casing, consisting of tubing head spool and tubing hanger.

- The tubing hanger is used to support the tubing string and seal the annular space. The tubing hanger is sealed so that it's convenient for operation.
- It's with the advantages of the rapid speed and safe performance.



A = Overall Height B = Distance from flange face to centre line of outlet C = Bowl Diameter D = Mini Hole



Tubing Spool Specifications									
Bottom Flange	Working Pressure	Top Flange	Working Pressure	Side Outlet	A	B	C	D	Approximate Weight (kg)
11"	2000psi	7-1/16"	2000psi	2" LP	16-3/4"	9-7/16"	7"	6-3/8"	440
11"	3000psi	7-1/16"	3000psi	2-1/16" stdd	17"	9-3/4"	7"	6-3/8"	605
11"	3000psi	7-1/16"	3000psi	2-9/16" stdd	17"	9-3/4"	7"	6-3/8"	635
11"	3000psi	7-1/16"	5000psi	2-1/16" stdd	17"	10-7/8"	7"	6-13/16"	675
11"	3000psi	7-1/16"	5000psi	2-9/16" stdd	17"	10-7/8"	7"	6-13/16"	725
11"	5000psi	7-1/16"	5000psi	2-1/16" stdd	19"	10-7/8"	7"	6-13/16"	880
11"	5000psi	7-1/16"	10,000psi	1-13/16" stdd	19"	10-7/8"	7"	6-13/16"	1170
11"	10,000psi	7-1/16"	10,000psi	1-13/16" stdd	24-1/4"	11"	7"	6-13/16"	1425
11"	10,000psi	7-1/16"	15,000psi	1-13/16" stdd	26-1/2"	12-1/8"	7"	6-13/16"	1710



Goat Head / Frac Head

- Standards:API 6A
- Size:4 1/16" ~ 7-1/16"
- Temp class:K. L .P. R .S. T. U
- Material class:AA. BB. CC.
- DD. EE. FF.
- Specification class:PSL1-PSL3
- Performance class:PR1.
- Pressure:10000Psi ~ 20000Psi
- Working medium:Oil, Gas & Water.



Choke Manifold / Kill Manifold

Working Pressure : 2000psi - 15,000psi

Working Medium : Oil, Gas, Water

Size : 1-13/16" - 4-1/16"

Temperature Class : L-U

Material Class : AA BB CC DD EE FF HH

Specification Class : PSL 1, PSL2, PSL3

Performance Class : PR1

Manufacturing Standard : API 6A, API 16C

