CAMTECH MANUFACTURING FZCO

PIG VALVES

CAMTECH

Empowering Global Flow Control

Company Profile

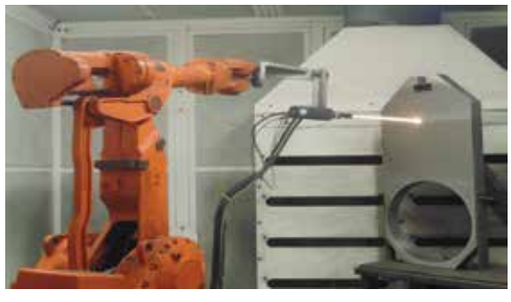
CAMTECH MANUFACTURING FZCO CAMTECH MANUFACTURING FZCO is the first and only API accredited valve manufacturing company among UAE, Middle East and GCC, engaged in this business since 1999 for manufacturing mainly Ball Valves, Gate, Globe, Check valves, Butterfly valves, Plug valves, Pig valves & Choke valves in metallurgy such as carbon steel, Stainless steel, Duplex and Super duplex steel, for size range from ½" to 56" and class rating from 150 to 2500.

Our state of the art manufacturing facility based in Jebel Ali Free Zone (UAE) is spread over an area of 260,000 Sq.Ft,is fully equipped with modern six axis flexible machining center supported by standalone CNC and associated sub-systems fully equipped to manufacture and supply complete range of valves for Pipelines, Oil and Gas sector, Petrochemical, Refineries,Pharmaceutical,Power,Construction,Water Industries and other process industries.

Camtech Manufacturing FZCO is API (6D, 6A, 600 & Q1) accredited and an ISO 9001, ISO 14001, OHSAS 18001 & GOST (TR-CU) certified company with CE PED 2014/68/EU, ATEX 94/9/EC and SIL certification.
All our valves are designed, engineered and manufactured in strict conformance to API, ASME, ASTM, ANSI, BS, DIN, GOST and other recognized international standards where ever applicable. Our continuous and stringent quality consistency is achieved through rigorous quality control processes and latest testing equipment for Fugitive Emission test, Fire safe test, Positive material identification, Cryogenic test, Hydro test, Pneumatic test, High pressure gas test.

Over the recent years there is a dramatic increase in facilities handling H2S bearing hydrocarbons. Hence parameters like Hydrogen sulfide concentration, Total system pressure, application temperature, existence of elemental sulfur and chloride content have a bearing on appropriate material selection in this severe environment. Hence all CAMTECH valves are manufactured in strict compliance with NACE MR0175/ISO 15156 to meet customer requirement.

Our central geographical location along with the long term association with major forge masters and foundries locally as well as overseas and with qualified and experienced staff , we are proud to say that our commitment are always achieved on time and every time.



Camtech pig valves are robust in construction and are developed from our existing range of Trunnion mounted ball valves, and having the function of launching or receiving pig, as well as all the features and function of standard pipe line Trunnion mounted ball valves.
Pig valve, normally consists of Pig Launching & Pig Receiving feature, is a device to clean the internal pipe periodically, and it is widely used in Oil & Gas pipeline industry. These valves offer durability and reliable service for oil and gas applications to improve the piping transportation efficiency. It can easily and safely use most of popular pig styles, either One-Piece Molded Pigs or Spherical Pigs that are intended for use in pig ball valves.

DESIGN

- Standards: API 6D, ASME B16.34 and API 598
- Size range: 2” - 12” (DN50 - DN300)
- Pressure Classes: ASME 150 – 1500
- Temperature range: -50º F to 400º F (-45º C to 205º C)
- Materials: LF2, 316 SS, and Exotic Alloys as required
- Seals: HNBR, Viton, RPTEF, Devlon, Peek or as required

FEATURES

- Trunnion Mounted Ball for reduced torque.
- Positive Shut Off with optional By-Pass valve
- Double Block and Bleed feature.
- Drain and Vent plugs
- Emergency Sealant Injectors for seat and stem.
- Pad lock arrangements.
- Longer bearings for smooth robust operation.
- Self-relieving cavity pressure seat.
- Accepts long Bullet and Spherical pigs.
- Designed in accordance with NACE requirements.
- Pig Entry cap with vent and relief groove.
- ISO 5211 mounting base.

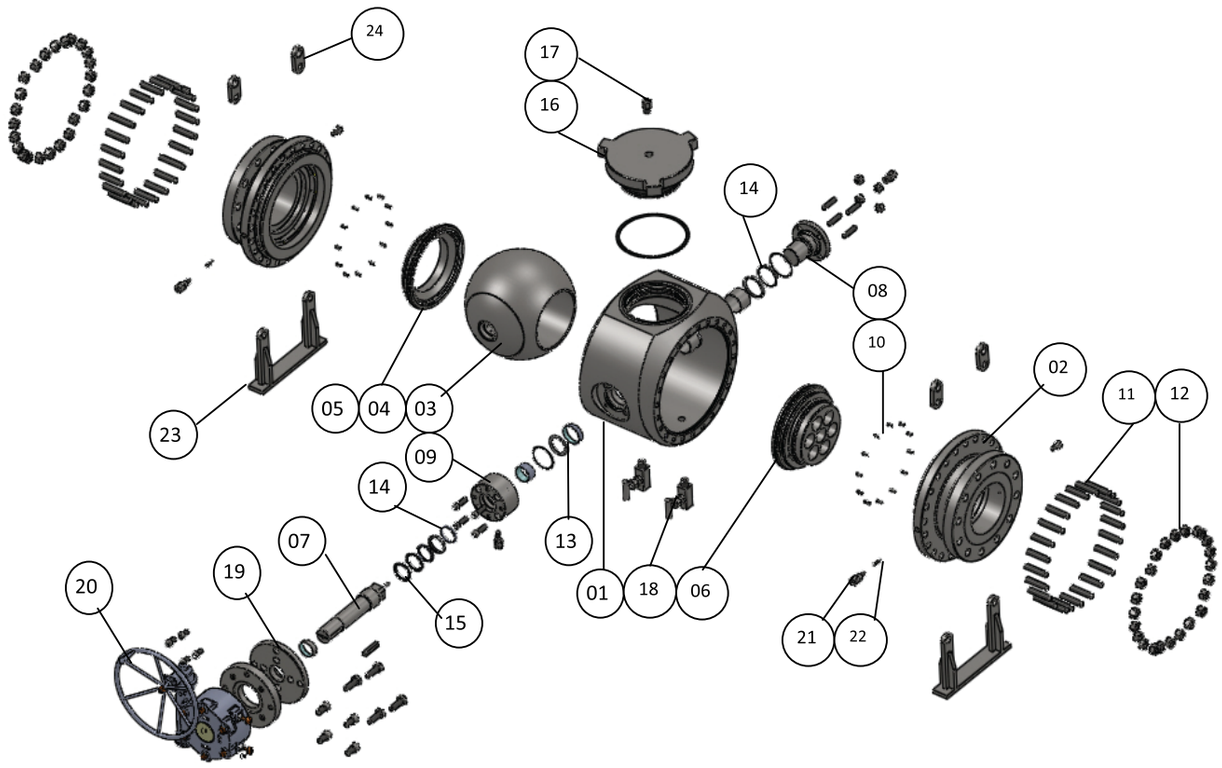
BENIFITS

- Available as a launcher and receiver.
- Cost saving over conventional pigging systems.
- Lesser joints and system components.
- Complete range of fluid compatibility.

CONVENTIONAL PIG LAUNCHER / RECEIVER

PIG VALVE

PIG VALVE



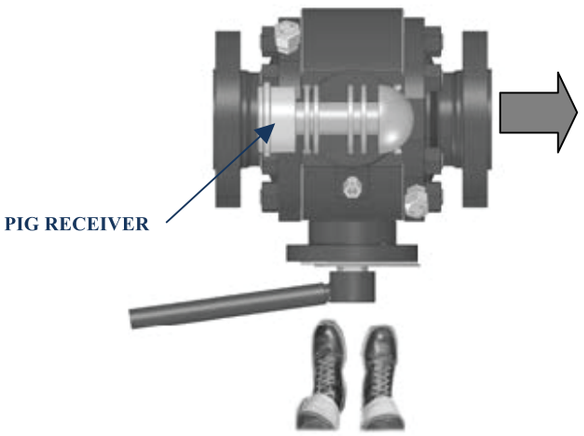
ITEM #	DESCRIPTION	MATERIAL	ITEM #	DESCRIPTION	MATERIAL
01	BODY	A105 / LF2 / LF3 / F316	13	BEARING	SS316 + PTFE
02	END FLANGE	A105 / LF2 / LF3 / F316	14	0-RING	VITON-B / VITON AED
03	BALL	F6a / LF2 / F316 / F55	15	PACKING	GRAPHITE
04	SEAT INSERT	RPTFE / DEVLON / PEEK	16	ENTRY CAP	A105 / LF2 / LF3 / F316
05	SEAT RING	F6a / LF2 / F316 / F55	17	VENT PLUG	SS 316
06	RECEIVER	F6a / LF2 / F316 / F55	18	DRAIN VALVE	SS 316
07	STEM	F6a / LF2 / F316 / F55	19	GLAND FLANGE	A105 / LF2 / LF3 / F316
08	TRUNNION	F6a / LF2 / F316 / F55	20	GEAR BOX	WORM GEAR BOX
09	STEM HOUSING	A105 / LF2 / LF3 / F316	21	SEALANT INJECTOR	SS 316
10	SPRINGS	INCONEL X-750 / 718	22	NRV	SS 316
11	BODY STUD	A193 B7/ B7M/ B8 / B83	23	SUPPORT FOOT	CARBON STEEL
12	BODY NUT	A194 2H / 2HM / 8 / 8M	24	LIFTING LUG	CARBON STEEL

■ Face to face shall be manufacturer standard. ■ 8” and larger utilizes body cavity equalization valve. ■ 6” and above shall be gear operated ■ Metal seated valves seat and ball surface shall be Tungsten carbide, Chromium carbide coated or Stellite Coated. ■ Seat & Stem sealant injection fitting are provided for size 6” & above as a standard. ■ Hot Dip Galvanizing and PTFE coated fasteners can also be provided on request. ■ End connection of Flanged End Raised Face is Standard. Ring Joint, Butt-Weld end can also be provided on request.

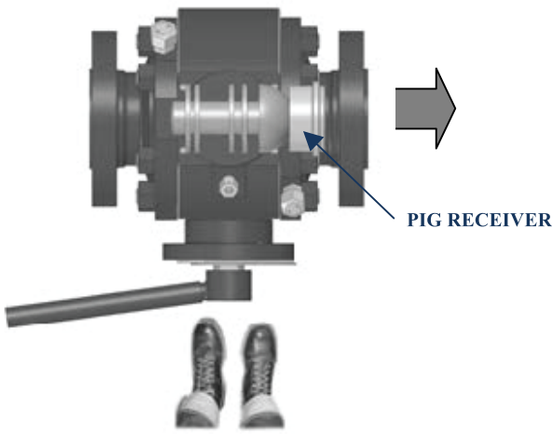
PIG VALVE ORIENTATION

PIG VALVE ORIENTATION—RECEIVER POSITIONS

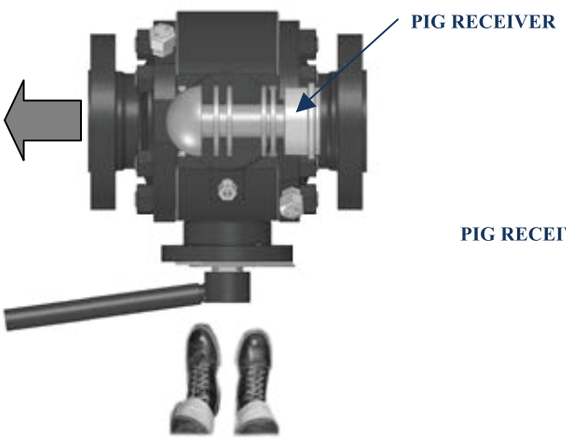
SENDER ORIENTATION : S1
Flow direction : left to right



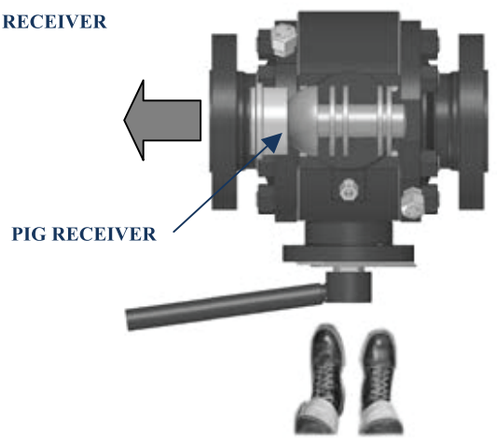
RECEIVER ORIENTATION : R1
Flow direction : left to right



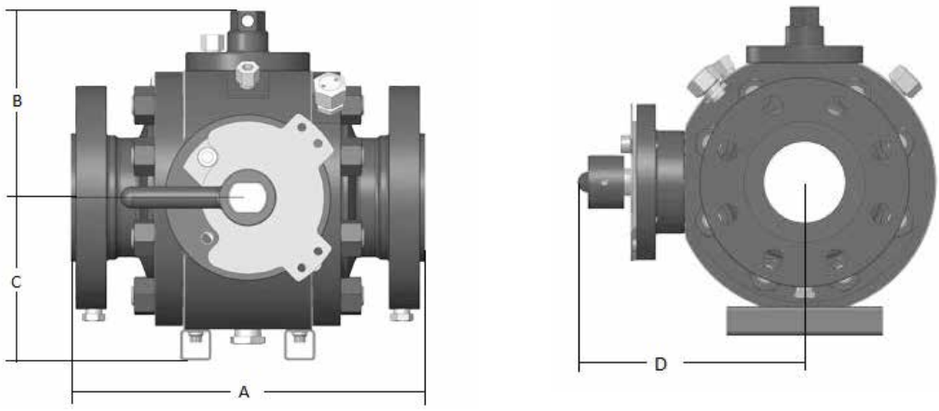
SENDER ORIENTATION : S2
Flow direction : right to left



RECEIVER ORIENTATION : R2
Flow direction : right to left



PIG VALVE DIMENSIONS



CLASS	CLASS 150								CLASS 300						
SIZE	2	3	4	6	8	10	12		2	3	4	6	8	10	12
A	292	325	395	457	724	898	1035		362	356	406	495	724	898	1035
B	140	198	235	250	475	580	735		145	198	235	250	475	580	735
C	110	170	200	250	340	380	430		110	170	200	250	340	380	430
D	195	235	282	362	465	515	620		195	235	285	362	465	515	620
WEIGHT(Kg)	60	86	102	260	860	1450	2295		65	95	140	280	890	1460	2340

CLASS	CLASS 600								CLASS 900						
SIZE	2	3	4	6	8	10	12		2	3	4	6	8	10	12
A	362	356	432	560	818	943	1068		368	381	457	740	890	965	1195
B	145	198	235	250	475	580	735		155	195	235	250	475	580	735
C	120	170	200	260	350	395	445		120	170	200	265	350	395	445
D	195	235	285	375	475	520	630		195	235	285	375	475	525	630
WEIGHT(Kg)	65	105	160	320	910	1490	2450		80	110	185	350	960	1542	2895

CLASS	CLASS 1500						
SIZE	2	3	4	6	8	10	12
A	368	395	546	832	1067	1130	1257
B	155	198	235	280	475	630	810
C	135	190	215	275	370	410	450
D	205	245	285	385	490	530	650
WEIGHT(Kg)	105	165	280	530	1120	1840	3240

■ Above dimensions are in mm. and sizes are in NPS. ■ Weights are relevant to flanged end valves. ■ Dimension B & weights are subject to change without notice. ■ For dimensions and weights for other sizes, consult the factory. ■ Dimension A mentioned is for flanged end valves only. ■ Some dimensions standard do not exist, these dimensions are manufacturer standard.

Camtech Repair Kit

Spare parts are available for quick delivery. Orders with valve serial numbers will ensure the correct parts are shipped. Contact your Camtech sales for more information

Quality Systems, Inspection and Testing

The CAMTECH Quality Control department verifies all processes from material receipt, in process, to final customer inspection. Major NDT facilities are in-house like the PMI, ultrasonic, to check the material quality and the product quality. All products are supplied with Certified Test Reports including Pressure Testing, NDT, chemical-physical analysis, along with any other specified test certifications. All of the valves are hydrostatically tested per API 6D Standard.

A complete range of equipment and instrumentation are available to perform standard and special tests. In addition to conventional hydrostatic testing, Camtech is fully equipped to carry enhanced gas tests, at ambient, low and high temperatures. Leakages can be verified by means of mass spectrometer and calibrated flow meter for accurate readings.

Camtech reserves the right to change this information without notice.

OTHER ACCREDITIONS

CAM-PV-00 (2016)

Head Office & Manufacturing Facility

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