Argus Machine Co. Ltd.



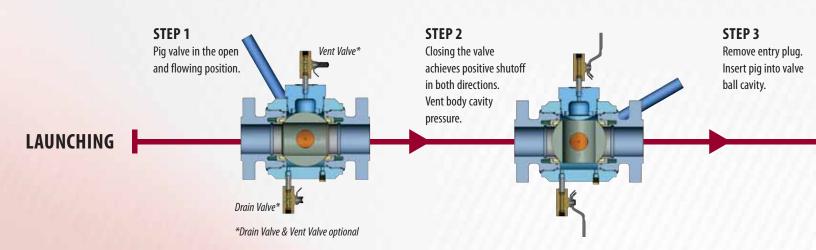
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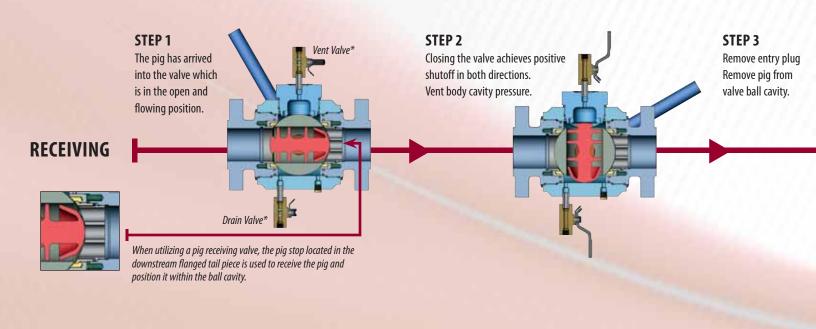


PIG VALVES

for a safe and efficient pigging process

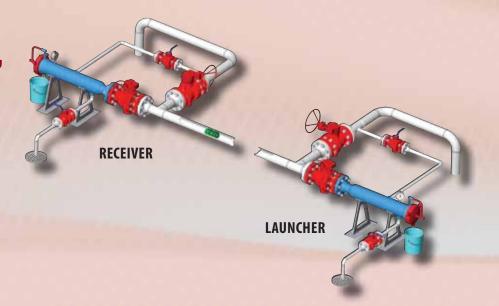
PIG LAUNCHING & RECEIVING SEQUENCE

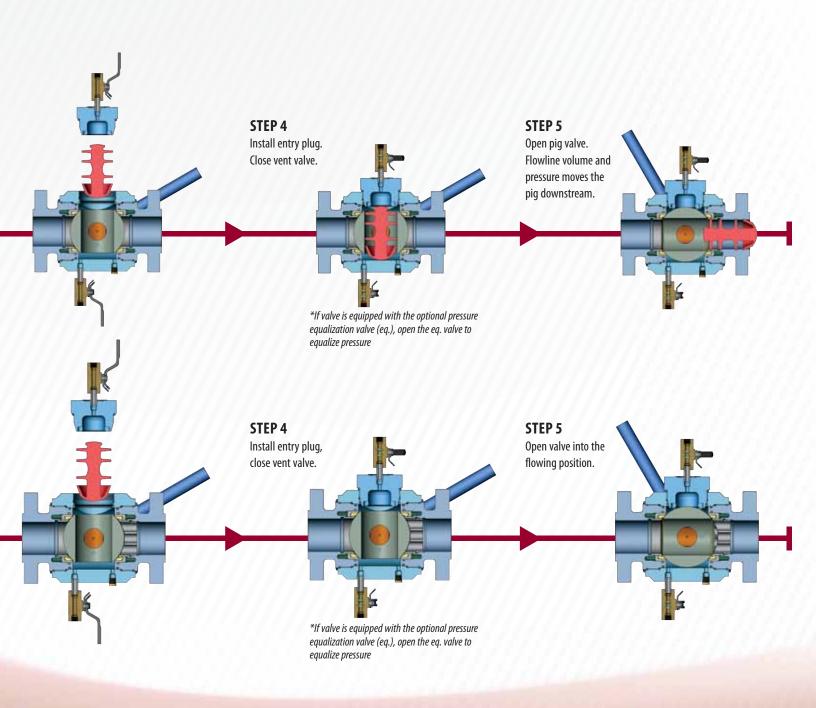


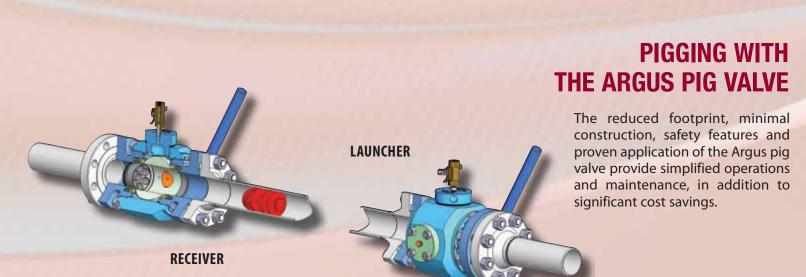


PIGGING WITH FABRICATED, BARREL-STYLE LAUNCHING AND RECEIVING TRAPS

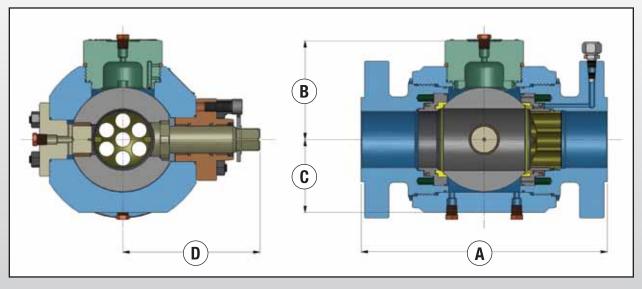
The necessity for supports, large footprint and complicated operation, along with maintenance and environmental issues, all contribute to a higher-cost, less-efficient pigging process.

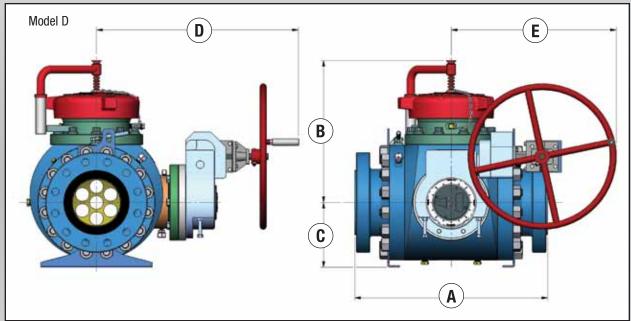


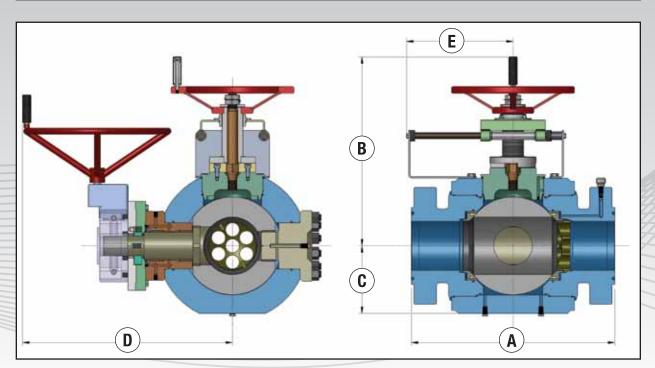




DRAWINGS AND DIMENSIONS







SIZE RANGE, WEIGHTS, AND DIMENSIONS

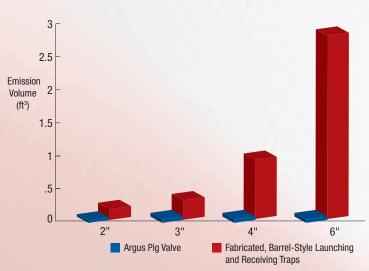
	ions are subje	es <u>not</u> meet <i>i</i> ct to change										-, '				, ,		DIIVI		
2" Pig Valve		A (Overal	l Lenath)		В		С		D		E	VALVE	E BORE	BALL	CORE ID	ENTRY F	LUG BORE	APPR	OX WT.
		RF		TJ																
	in	(mm)	in	(mm)	in	(mm)	in	(mm)	in	(mm)	in	(mm)	in	(mm)	in	(mm)	in	(mm)	lbs	(kg)
150 ANSI*	11.50	(292)	11.88	(302)	5.62	(143)	4.00	(102)	7.62	(194)			2.06	(52)	2.50	(64)	2.56	(65)	135	(61)
300/600 ANSI*	14.25	(362)	14.62	(371)	5.62	(143)	4.00	(102)	7.62	(194)			2.06	(52)	2.50	(64)	2.56	(65)	145	(66)
900 ANSI	14.50	(368)	14.62	(371)	5.62	(143)	4.00	(102)	7.62	(194)			2.06	(52)	2.50	(64)	2.56	(65)	175	(79)
Line Pipe*	11	.00	(2	79)	5.62	(143)	4.00	(102)	7.62	(194)			2.06	(52)	2.50	(64)	2.56	(65)	135	(61)
3" Pig Valve		A (Overa	l Length)		В		С		D		E	VALVI	E BORE	BALL (CORE ID	ENTRY I	LUG BORE	APPR	OX WT.
	F	RF	R	TJ	in	(mm)	in	(mm)	in	(mm)	in	(mm)	in	(mm)	in	(mm)	In	(mm)	lbs	(kg)
	in	(mm)	in	(mm)		(11111)		(11111)		(11111)		(11111)		(11111)		(11111)	""	(11111)	103	(Ny)
150 ANSI*	12.75	(324)	13.12	(333)	6.38	(162)	4.75	(121)	8.38	(213)			3.12	(79)	3.56	(90)	3.59	(91)	190	(86)
300 ANSI*	14.00	(356)	14.12	(359)	6.38	(162)	4.75	(121)	8.38	(213)			3.12	(79)	3.56	(90)	3.59	(91)	210	(95)
600 ANSI	14.00	(356)	14.12	(359)	6.38	(162)	4.75	(121)	8.38	(213)			3.12	(79)	3.56	(90)	3.59	(91)	210	(95)
900 ANSI	15.00	(381)	15.12	(384)	6.38	(162)	4.75	(121)	8.38	(213)			3.12	(79)	3.56	(90)	3.59	(91)	230	(104
4" Pig Valve		A (Overa	l Length)		В		C		D		E	VALVE	E BORE	BALL (CORE ID	ENTRY I	PLUG BORE	APPRO	DX WT
		RF .		TJ	in	(mm)	in	(mm)	in	(mm)	in	(mm)	in	(mm)	in	(mm)	in	(mm)	lbs	(kg)
I FO ANCI*	in 15.50	(mm)	in	(mm)	7.04	(100)	F 0F	(100)	10.00	(055)			4.10	(105)	4.50	(110)	4.50	(117)	210	(1.41
50 ANSI*	15.50	(394)	16.00	(406)	7.34	(186)	5.35	(136)	10.03	(255)			4.12	(105)	4.56	(116)	4.59	(117)	310	(141
300 ANSI*	16.00	(406)	16.62	(422)	7.34	(186)	5.35	(136)	10.03	(255)			4.12	(105)	4.56	(116)	4.59	(117)	325	(147
600 ANSI	17.00	(432)	17.12	(435)	7.34	(186)	5.35	(136)	10.03	(255)			4.12	(105)	4.56	(116)	4.59	(117)	350	(159
900 ANSI	18.00	(457)	18.12	(460)	7.34	(186)	5.35	(136)	10.03	(255)			4.12	(105)	4.56	(116)	4.59	(117)	370	(168
1500 ANSI	21.50	(546)	21.62	(549)	21.00	(533) B	6.25	(159) C	25.82	(656) D		E	4.00	(102) E BORE	4.75	(121)	4.97	(126) PLUG BORE	600 APPRO	(272
6" Pig Valve	_	A (Overa		TJ		D		<u> </u>		ע		_	VALVE	E DUNE	DALL	JUNE ID	ENINT	LUG BUNE	APPN	JA WI
	in	(mm)	in	(mm)	in	(mm)	in	(mm)	in	(mm)	in	(mm)	in	(mm)	in	(mm)	in	(mm)	lbs	(kg
150 ANSI*	18.00	(457)	18.38	(467)	9.50	(241)	7.12	(181)	9.20	(234)			6.12	(155)	6.75	(172)	6.72	(171)	580	(263
300 ANSI*	18.88	(480)	19.38	(492)	9.50	(241)	7.12	(181)	9.20	(234)			6.12	(155)	6.75	(172)	6.72	(171)	620	(281
600 ANSI	22.00	(559)	22.12	(562)	9.50	(241)	7.12	(181)	9.20	(234)			6.12	(155)	6.75	(172)	6.72	(171)	700	(317
900 ANSI	24.00	(610)	24.12	(613)	21.00	(533)	7.12	(181)	27.06	(687)			6.12	(155)	6.75	(172)	6.72	(171)	770	(349
1500 ANSI	27.75	(705)	28.00	(711)	27.40	(696)	8.63	(219)	31.08	(789)	15.62	(397)	6.00	(152)	7.00	(178)	6.94	(176)	1680	(762)
8" Pig Valve		A (Overa	II Length)		В		C		D		E	VALVE	E BORE	BALL	CORE ID	ENTRY F	LUG BORE	APPRO	OX WT
Model P	F	RF	R	TJ	in	(mm)	in	(mm)	in	(mm)	in	(mm)	in	(mm)	in	(mm)	in	(mm)	lbs	(kg)
Wodel I	in	(mm)	in	(mm)		(11111)		(11111)		(11111)		(11111)		(11111)		(11111)		(11111)	103	(Ng)
150 ANSI*	23.50	(597)	23.88	(607)	29.00	(737)	11.00	(279)	32.50	(826)	16.50	(419)	8.00	(203)	9.00	(229)	9.18	(233)	1915	(868)
300 ANSI*	24.50	(622)	25.00	(635)	29.00	(737)	11.00	(279)	32.50	(826)	16.50	(419)	8.00	(203)	9.00	(229)	9.18	(233)	1965	(89
600 ANSI	26.00	(660)	26.12	(663)	29.00	(737)	11.00	(279)	32.50	(826)	16.50	(419)	8.00	(203)	9.00	(229)	9.18	(233)	2085	(946
900 ANSI	29.00	(737)	29.12	(740)	29.00	(737)	11.00	(279)	32.50	(826)	16.50	(419)	8.00	(203)	9.00	(229)	9.18	(233)	2215	(100
1500 ANSI	32.75	(832)	33.12	(841)	29.80	(757)	11.00	(279)	33.50	(851)	15.62	(397)	8.00	(203)	9.38	(238)	9.40	(239)	3000	(136
8" Pig Valve	_	A (Overa				В		C		D		E	VALVE	E BORE	BALL	CORE ID	ENTRY	PLUG BORE	APPRO	OX W
Model D	in	(mm)	in	TJ (mm)	in	(mm)	in	(mm)	in	(mm)	in	(mm)	in	(mm)	in	(mm)	in	(mm)	lbs	(kg)
		(111111)	""	(111111)				Consi	ılt with A	rgus for 1	50. 900 a	and 1500	ANSI Dat	a						
300 ANSI*	28.50	(724)	29.00	(737)	23.37	(594)	10.67	(271)	32.70	(831)	26.72	(679)	8.00	(203)	9.00	(229)	8.75	(222)	2075	(941
600 ANSI*	31.20	(792)	31.32	(796)	23.37	(594)	10.67	(271)	32.70	(831)	26.72	(679)	8.00	(203)	9.00	(229)	8.75	(222)	2225	(100
900 ANSI*	35.00	(889)	35.12	(892)	24.65	(626)	11.24	(285)	33.34	(847)	31.72	(806)	8.00	(203)	8.88	(226)	8.75	(222)	2785	(126
10" Pig Valve		A (Overal				В		C		D		E		E BORE		CORE ID		PLUG BORE	APPRO	
	_	RF		TJ																
Model D	in	(mm)	in	(mm)	in	(mm)	in	(mm)	in	(mm)	in	(mm)	in	(mm)	in	(mm)	in	(mm)	lbs	(kg
								Consu	ılt with A	rgus for 1	50, 900 a	and 1500	ANSI Dat	a						
300 ANSI*	35.36	(898)	35.86	(911)	26.09	(663)	12.00	(305)	34.56	(878)	32.33	(821)	10.00	(254)	11.00	(279)	10.75	(273)	3225	(146
600 ANSI*	37.12	(943)	37.25	(946)	26.09	(663)	12.00	(305)	34.56	(878)	32.33	(821)	10.00	(254)	11.00	(279)	10.75	(273)	3400	(154
12" Pig Valve		A (Overa	I Length)		В		С		D		E	VALVE	E BORE	BALL (CORE ID	ENTRY I	LUG BORE	APPRO	OX W
Model D	F	RF	R	TJ	in	(mm)	in	(mm)	in	(mm)	in	(mm)	in	(mm)	in	(mm)	in	(mm)	lbs	(kg
model D	in	(mm)	in	(mm)		(111111)		(411111)	"'	(41111)	""	(11111)		(41111)		(41111)	""	(111111)	ino	(nů
										rgus for 1										
300 ANSI*	40.75	(1035)	41.25	(1048)	29.15	(740)	14.17	(360)	38.88	(988)	36.67	(931)	12.00	(305)	13.00	(330)	12.75	(324)	5120	(232
600 ANSI*	42.06	(1068)	42.19	(1071)	29.15	(740)	14.17	(360)	38.88	(988)	36.67	(931)	12.00	(305)	13.00	(330)	12.75	(324)	5300	(240

SAVE MONEY AND IMPROVE EFFICIENCIES

Gas Emissions Comparison

Argus Pig Valve vs. Fabricated, Barrel-Style Launching and Receiving Traps





16	Γ	8 Inch - 12 inch	Pig Valve		
14					
12					
10	-				
Emission Volume 8 (ft³)					
6					
4					
2					
0		8"	10"	12"	+
		Argus Pig Valve		Barrel-Style Lau	ınching

PHYSICAL VOLUME (ft³)						
Size	Argus 600 Class Pig Valve	Fabricated, Barrel-Style Launching & Receiving Traps				
2"	0.019	0.207				
3"	0.049	0.433				
4"	0.110	1.086				
6"	0.304	2.865				

PHYSICAL VOLUME (ft³)						
Size	Argus 600 Class Pig Valve	Fabricated, Barrel-Style Launching & Receiving Traps				
8"	0.884	5.756				
10"	1.544	8.929				
12"	2.379	15.212				

TRIM MATERIALS FOR STANDARD VALVES						
Pressure Range	ASME/ANSI Class 150-1500					
Temperature Range	-50°F to +250°F (-46°C to +121°C)					
Body	ASTM A350 LF2					
End Connection	ASTM A350 LF2					
Ball	ASTM A350 LF2, ENP					
Pig Entry Cap	ASTM A350 LF2					
Trunnion / Bearing Plate	ASTM A350 LF2 w/ENP / ASTM A516 Gr. 70					
Seat Ring	AISI 1020 / ASTM A350 LF2, ENP					
Seat Spring	Inconel X-750					
Primary Seals	HSN, LTN, Carboxylated Nitrile					
Seat Ring Insert	Devlon 'V'					
Bolting - Pressure Containing	ASTM A320 L7M / ASTM A194 L7M					
Other trims are available upon request						

Argus Machine Co. Ltd. has provided design expertise, quality manufacturing and reliable service to the oil and gas industry since 1958. Argus has a quality assurance program that is certified to API Q1 and ISO 9001:2000. We hold five API licenses, assuring audited quality in all our products.

Achieve optimal flow line and pipeline performance and integrity with Argus pigging valves.

Consider these benefits:

- A much smaller footprint reduces the space required for pigging facilities.
- The pigging valve may be used as a traditional block valve reducing the number of valves in the pigging facility.
- Field construction time is reduced considerably due to the simple configuration and the limited requirement for ground support, piers and pilings in the traditional configuration.
- Emissions are reduced in excess of 80% compared to fabricated barrel-style launching and receiving traps.
- Built in safety features ensure lower personnel risk through the pigging operation.
- The application of the pigging valve simplifies the pigging operation through a single quarter-turn valve concept which minimizes training and operation time while reducing maintenance and overall costs.



Barnett Shale, 6" 600 ANSI Launching valve, with reduced bypass.



6" 600 ANSI Receiving valve, with full 6 inch bypass.



HOUSTON

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