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THE ORIGINATOR OF PISTON-TYPE VALVES

TANK BOTTOM/DRAIN VALVES

SOFT SEAL PISTON VALVES

Strahman® PROCESS VALVES

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ORIGINAL STRAHMAN RAM-TYPE DRAIN VALVE

FEATURES

- Quality System Registered to ISO 9001:2008 Certificate #003264
- Valve flanges meet the requirements of ANSI B16.5
- All valves manufactured in accordance to ASME/ANSI B16.34 standard
- All Valves 100% Leak Tested for bubble tight shut-off
- Vacuum pressure tested to 28 vacuum inches of mercury (0.94 PSIA) upon request
- Strahman 1-inch to 6-inch 150, 300, & 600 Class ANSI drain valves qualify by design to API Fire Test for Valves
- 3/16-inch RF on the inlet flange for mating to Strahman drain valve nozzles, adapters and inserts.
- 45° and 60° straight neck discharges are standard
- Packing Materials:
  – PTFE rated -328°F (-200°C) to 450°F (232°C)
  – MR to 650°F (343°C)
  – Graphite rated to 1000°F (538°C)
  – TFM 1600 rated -328°F (-200°C) to 450°F (232°C)

AVAILABLE SIZES

- 1-inch, 2-inch and 3-inch, 900, 1100 and 1500 Class ANSI RF flanges*
- 1-inch through 6-inch 150, 300 and 600 Class ANSI RF flanges*
- 8-inch, 10-inch and 12-inch, 150 and 300 Class ANSI RF
- Optional flanges include DIN, British Standard, JIS, ANSI RJ, flat face and quick disconnect*

AVAILABLE OPERATORS

- Manual Handwheel
- Gear Operator
- Air Cylinder (with or without external switches)
- Hydraulic Cylinder (with or without external switches)
- Motor (electric or pneumatic) with external switches
- Multi-turn Electric Rotork motor with internal switches†

* For 316 and 316L stainless steel pressure and temperature ratings see the tables below. For all other sizes and materials consult Strahman direct.
† Other multi-turn operators available upon request.

												316L MAX
	Pressure	psig	275	235	215	195	170	140	110	80	50	35	65
316	**CL 150**	(barg)	(19.0)	(16.2)	(14.8)	(13.4)	(11.7)	(9.7)	(7.6)	(5.5)	(3.4)	(2.4)	(4.5)
& 316L	**Temperature**	Deg. F	100	200	300	400	500	600	700	800	900	950	**850**
		(Deg. C)	(37.8)	(93.3)	(148.9)	(204.4)	(260.0)	(315.6)	(371.1)	(426.7)	(482.2)	(510.0)	(454.4)

												316L MAX
	Pressure	psig	720	620	560	515	480	450	430	420	415	385	420
316	**CL 300**	(barg)	(49.7)	(42.8)	(38.6)	(35.5)	(33.1)	(31.0)	(29.7)	(29.0)	(27.6)	(26.6)	(29.0)
& 316L	**Temperature**	Deg. F	100	200	300	400	500	600	700	800	900	950	**850**
		(Deg. C)	(37.8)	(93.3)	(148.9)	(204.4)	(260.0)	(315.6)	(371.1)	(426.7)	(482.2)	(510.0)	(454.4)

												316L MAX
	Pressure	psig	1440	1240	1120	1025	955	900	870	845	830	775	835
316	**CL 600**	(barg)	(99.3)	(85.5)	(77.2)	(70.7)	(65.9)	(62.1)	(60.0)	(58.3)	(57.2)	(53.4)	(57.6)
& 316L	**Temperature**	Deg. F	100	200	300	400	500	600	700	800	900	950	**850**
		(Deg. C)	(37.8)	(93.3)	(148.9)	(204.4)	(260.0)	(315.6)	(371.1)	(426.7)	(482.2)	(510.0)	(454.4)

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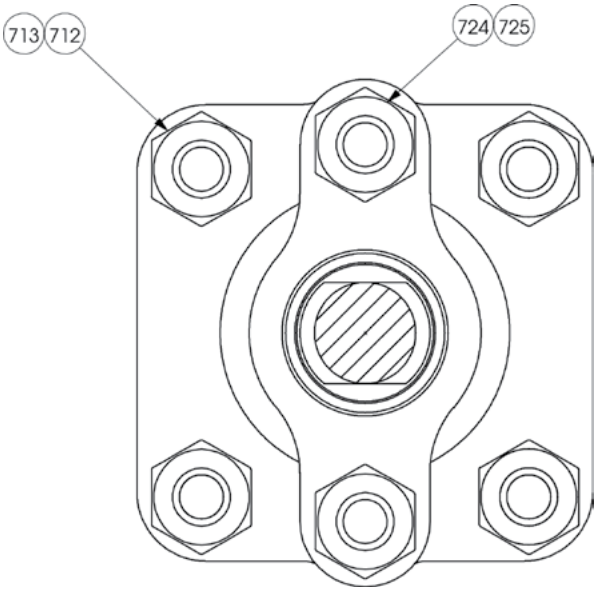
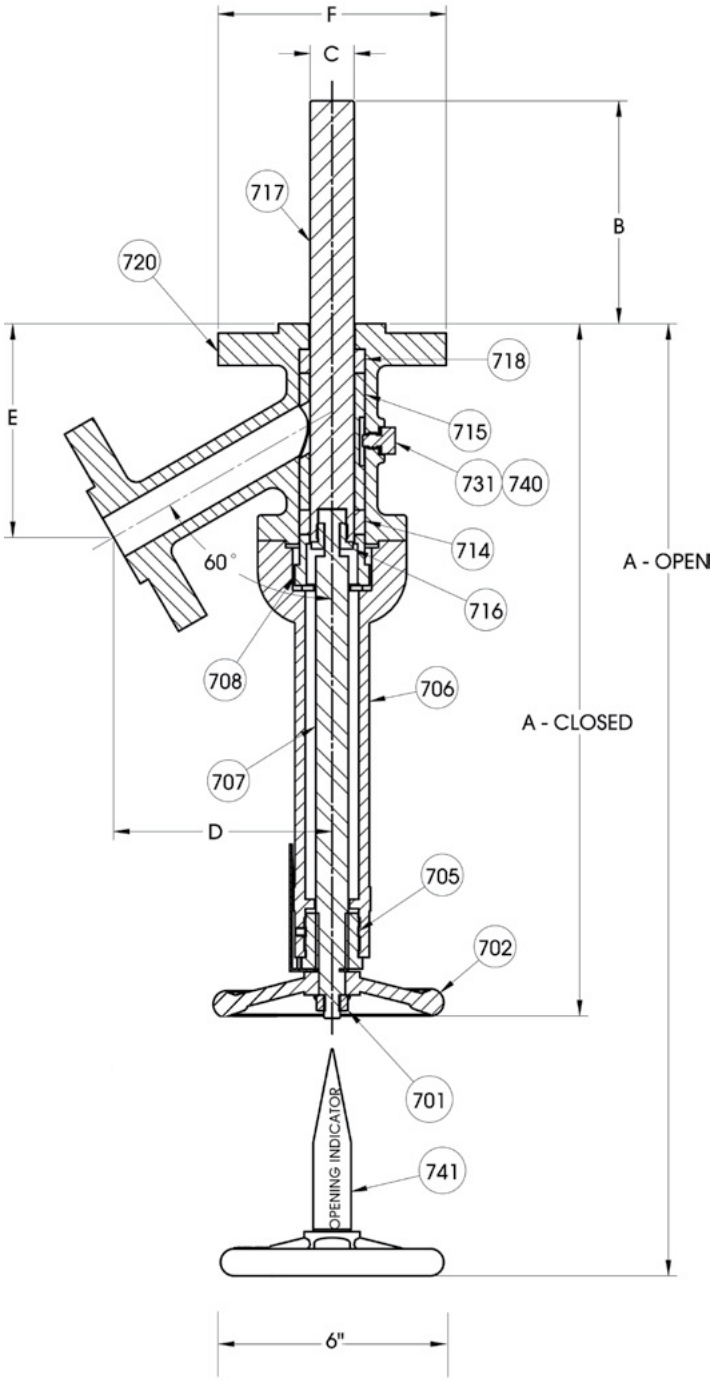
1” & 1½” HAND OPERATED RISING STEM RAM-TYPE DRAIN VALVES

Part No.	Description	Std. Material
701	Hand Wheel Nut	304SST
702	Hand Wheel	Cast Iron
704	Bushing Lock Screw	304SST
705	Bushing	Bronze (SST Avail.)
706	Bonnet	304SST
707	Stem *	416SST
708	Gland	304SST
712	Bonnet Nut	316SST
713	Bonnet Stud	304SST
714	Gland Ring *	Braided TFE
715	Cage †	316SST
716	Split Nut *	316SST
717	Piston * †	316SST
718	Inlet Ring * †	TFE
720	Body †	316SST
724	Gland Nut	316SST
725	Gland Stud	304SST
731	Cage Lock †	316SST
740	Cage Lock Gasket * †	TFE
741	Opening Indicator	304SST

* Indicates recommended spare parts
† Denotes wetted parts



1” through 2 ½” Valve Body Deck



CAUTION

When a Strahman adapter is not supplied with the drain valve, or the customer’s nozzle does not have a piloting recess, the nozzle bore must be ¼” larger than the piston diameter. This clearance prevents the piston from scoring on the inside of the nozzle which could cause the valve to leak.

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RISING STEM RAM-TYPE DRAIN VALVES

1" Drain Valve with Standard 60 Degree Straight Neck Discharge							
Pressure Class	A Closed	A Open	B ± ⅛"*	C ± .002"	D	E	F
ANSI Class 150	12 ¼"	16 ½"	2"	0.984"	4 ⅛"	3 ¾"	4 ¼"
	14 ¼"	20 ½"	4"	0.984"	4 ⅛"	3 ¾"	4 ¼"
	16 ¼"	24 ½"	6"	0.984"	4 ⅛"	3 ¾"	4 ¼"
	18 ¼"	28 ½"	8"	0.984"	4 ⅛"	3 ¾"	4 ¼"
	22 ¼"	36 ½"	12"	0.984"	4 ⅛"	3 ¾"	4 ¼"
ANSI Class 300	13"	17 1⅛"	2"	0.984"	4 13⁄16"	4 9⁄16"	4 ⅞"
	15"	21 1⅛"	4"	0.984"	4 13⁄16"	4 9⁄16"	4 ⅞"
	17"	25 1⅛"	6"	0.984"	4 13⁄16"	4 9⁄16"	4 ⅞"
	19"	29 1⅛"	8"	0.984"	4 13⁄16"	4 9⁄16"	4 ⅞"
	23"	37 1⅛"	12"	0.984"	4 13⁄16"	4 9⁄16"	4 ⅞"
ANSI Class 600	13 3⁄16"	18 1⁄16"	2"	0.984"	5"	4 ⅞"	4 ⅞"
	15 3⁄16"	22 1⁄16"	4"	0.984"	5"	4 ⅞"	4 ⅞"
	17 3⁄16"	26 1⁄16"	6"	0.984"	5"	4 ⅞"	4 ⅞"
	19 3⁄16"	30 1⁄16"	8"	0.984"	5"	4 ⅞"	4 ⅞"
	23 3⁄16"	38 1⁄16"	12"	0.984"	5"	4 ⅞"	4 ⅞"

1 ½" Drain Valve with Standard 60 Degree Straight Neck Discharge							
Pressure Class	A Closed	A Open	B ± ⅛"*	C ± .002"	D	E	F
ANSI Class 150	13 5⁄8"	18 7⁄16"	2"	1.181"	5"	4 5⁄8"	5"
	15 5⁄8"	22 7⁄16"	4"	1.181"	5"	4 5⁄8"	5"
	17 5⁄8"	26 7⁄16"	6"	1.181"	5"	4 5⁄8"	5"
	19 5⁄8"	30 7⁄16"	8"	1.181"	5"	4 5⁄8"	5"
	23 5⁄8"	38 7⁄16"	12"	1.181"	5"	4 5⁄8"	5"
ANSI Class 300	14 5⁄16"	19 ½"	2"	1.181"	5 5⁄8"	5 ¼"	6 ⅛"
	16 5⁄16"	23 ½"	4"	1.181"	5 5⁄8"	5 ¼"	6 ⅛"
	18 5⁄16"	27 ½"	6"	1.181"	5 5⁄8"	5 ¼"	6 ⅛"
	20 5⁄16"	31 ½"	8"	1.181"	5 5⁄8"	5 ¼"	6 ⅛"
	24 5⁄16"	39 ½"	12"	1.181"	5 5⁄8"	5 ¼"	6 ⅛"
ANSI Class 600	14 5⁄8"	20 ⅛"	2"	1.181"	5 7⁄8"	5 ¼"	6 ⅛"
	16 5⁄8"	24 ⅛"	4"	1.181"	5 7⁄8"	5 ¾"	6 ⅛"
	18 5⁄8"	28 ⅛"	6"	1.181"	5 7⁄8"	5 ¾"	6 ⅛"
	20 5⁄8"	32 ⅛"	8"	1.181"	5 7⁄8"	5 ¾"	6 ⅛"
	24 5⁄8"	40 ⅛"	12"	1.181"	5 7⁄8"	5 ¾"	6 ⅛"

1" Drain Valve with Standard 45 Degree Straight Neck Discharge							
Pressure Class	A Closed	A Open	B ± ⅛"*	C ± .002"	D	E	F
ANSI Class 150	14"	18 ⅞"	2"	0.984	4 ½"	6 ¼"	4 ¼"
	16"	22 ⅞"	4"	0.984	4 ½"	6 ¼"	4 ¼"
	18"	26 ⅞"	6"	0.984	4 ½"	6 ¼"	4 ¼"
	20"	30 ⅞"	8"	0.984	4 ½"	6 ¼"	4 ¼"
	24"	38 ⅞"	12"	0.984	4 ½"	6 ¼"	4 ¼"
ANSI Class 300	14"	18 ⅞"	2"	0.984	4 ⅝"	6 ⅜"	4 ⅞"
	16"	22 ⅞"	4"	0.984	4 ⅝"	6 ⅜"	4 ⅞"
	18"	26 ⅞"	6"	0.984	4 ⅝"	6 ⅜"	4 ⅞"
	20"	30 ⅞"	8"	0.984	4 ⅝"	6 ⅜"	4 ⅞"
	24"	38 ⅞"	12"	0.984	4 ⅝"	6 ⅜"	4 ⅞"
ANSI Class 600	14"	18 ⅞"	2"	0.984	4 ¾"	6 ⅜"	4 ⅞"
	16"	22 ⅞"	4"	0.984	4 ¾"	6 ⅜"	4 ⅞"
	18"	26 ⅞"	6"	0.984	4 ¾"	6 ⅜"	4 ⅞"
	20"	30 ⅞"	8"	0.984	4 ¾"	6 ⅜"	4 ⅞"
	24"	38 ⅞"	12"	0.984	4 ¾"	6 ⅜"	4 ⅞"

1 ½" Drain Valve with Standard 45 Degree Straight Neck Discharge							
Pressure Class	A Closed	A Open	B ± ⅛"*	C ± .002"	D	E	F
ANSI Class 150	15 9⁄16"	21 1⁄16"	2"	1.181"	5 ¼"	7 7⁄16"	5"
	17 9⁄16"	25 1⁄16"	4"	1.181"	5 ¼"	7 7⁄16"	5"
	19 9⁄16"	29 1⁄16"	6"	1.181"	5 ¼"	7 7⁄16"	5"
	21 9⁄16"	33 1⁄16"	8"	1.181"	5 ¼"	7 7⁄16"	5"
	25 9⁄16"	41 1⁄16"	12"	1.181"	5 ¼"	7 7⁄16"	5"
ANSI Class 300	15 9⁄16"	21 1⁄16"	2"	1.181"	5 5⁄16"	7 9⁄16"	6 ⅛"
	17 9⁄16"	25 1⁄16"	4"	1.181"	5 5⁄16"	7 9⁄16"	6 ⅛"
	19 9⁄16"	29 1⁄16"	6"	1.181"	5 5⁄16"	7 9⁄16"	6 ⅛"
	21 9⁄16"	33 1⁄16"	8"	1.181"	5 5⁄16"	7 9⁄16"	6 ⅛"
	25 9⁄16"	41 1⁄16"	12"	1.181"	5 5⁄16"	7 9⁄16"	6 ⅛"
ANSI Class 600	15 ½"	21	2"	1.181"	5 ½"	7 ⅝"	6 ⅛"
	17 ½"	25	4"	1.181"	5 ½"	7 ⅝"	6 ⅛"
	19 ½"	29	6"	1.181"	5 ½"	7 ⅝"	6 ⅛"
	21 ½"	33	8"	1.181"	5 ½"	7 ⅝"	6 ⅛"
	25 ½"	41	12"	1.181"	5 ½"	7 ⅝"	6 ⅛"

* Strahman piston extensions are measured from the height of the RF for an ANSI standard flange. For ANSI 600 class valves the extension is equal to the actual RF provided by Strahman. For ANSI 150 and 300 class valves the ANSI standard RF height is ⅛" while Strahman provides ⅜" height for piloting as standard. Customers can request a ⅛" RF height for RF-to-RF flange installation and the piston extension will equal the actual distance from the RF. For the Strahman standard (⅜" height) the distance measured from the RF to the tip of the piston will be ⅛" less than the description. Example: 2" ANSI 150 Drain Valve with 6" piston extension will measure 5 ⅞" from a standard Strahman RF to the tip of the piston. Piston extension tolerances tighter than ⅛" available upon request.

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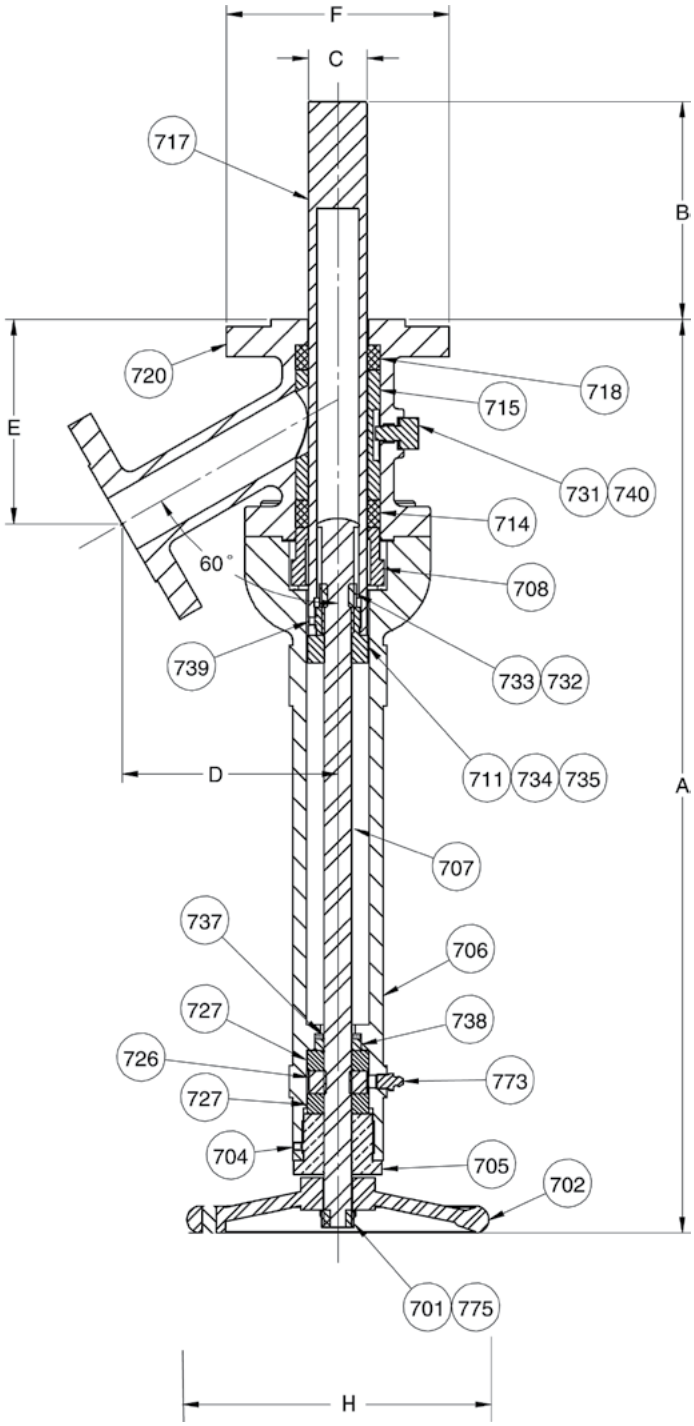
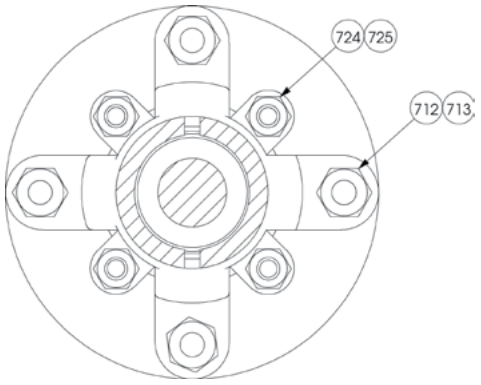
HAND OPERATED TELESCOPING STEM RAM-TYPE DRAIN VALVES

Part No.	Description	Std. Material
701	Hand Wheel Nut	304SST
702	Hand Wheel	Cast Iron
704	Bushing Lock Screw	304SST
705	Bushing *	303SST
706	Bonnet	Carbon Steel
707	Stem *	416SST
708	Gland	304SST
711	Crosshead*	Bronze (SST Avail.)
712	Bonnet Nut	316SST
713	Bonnet Stud	304SST
714	Gland Ring *	Braided TFE
715	Cage †	316SST
717	Piston * †	316SST
718	Inlet Ring * †	TFE
720	Body †	316SST
724	Gland Nut	316SST
725	Gland Stud	304SST
726	Bearing Collar	303SST
727	Bearing *	Carbon Steel
731	Cage Lock †	316SST
732	Stop Collar	303SST
733	Collar Pin	304SST
734	Stem Guide	304SST
735	Guide Screws	304SST
737	Bearing Retainer	303SST
738	Bearing Seal	TFE
739	Piston Set Screw	304SST
740	Cage Lock Gasket * †	TFE
773	Grease Fitting	Steel

* Indicates recommended spare parts
† Denotes wetted parts





3” and Larger Valve Body Deck

CAUTION

When a Strahman adapter is not supplied with the drain valve, or the customer’s nozzle does not have a piloting recess, the nozzle bore must be ¼” larger than the piston diameter. This clearance prevents the piston from scoring on the inside of the nozzle which could cause the valve to leak.

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STEM RAM-TYPE DRAIN VALVES

ANSI Class 150 Drain Valve with standard 60 Degree Straight Neck Discharge									
Valve Size	A Std.	B ± 1/8"*	C ± .002"	D	E	F	H	A Max.	B Max.
2"	23"	6"	1.575"	5 13/16"	5 1/4"	6"	8 1/8"	29"	12"
2 1/2	23 7/8"	6"	1.968"	6 1/4"	5 3/4"	7"	8 1/8"	29 7/8"	12"
3"	26 7/8"	6"	2.362"	7 3/16"	6 5/8"	7 1/2"	10 3/4"	32 7/8"	12"
4"	29 5/8"	6"	3.149"	8 3/16"	7 1/2"	9"	10 3/4"	35 5/8"	12"
6"	39 1/4"	6"	4.921"	11"	10 1/2"	11"	18"	42 1/4"	9"

ANSI Class 150 Drain Valve with standard 45 Degree Straight Neck Discharge									
Valve Size	A Std.	B ± 1/8"*	C ± .002"	D	E	F	H		
2"	26 3/16"	6"	1.575"	6 1/2"	8 3/8"	6"	8 1/8"		
3"	31 3/8"	6"	2.362"	8 5/8"	11"	7 1/2"	10 3/4"		
4"	34 7/16"	6"	3.149"	10 3/8"	12 3/4"	9"	10 3/4"		
6"	45 13/16"	6"	4.921"	13 5/8"	17 3/8"	11"	18"		

ANSI Class 150 Drain Valve with standard 90 Degree Straight Neck Discharge									
Valve Size	A Std.	B ± 1/8"*	C ± .002"	D	E	F	H	A Max.	B Max.
4"	38 7/8"	6"	3.149"	6 3/4"	6 3/4"	9"	10 3/4"	38 1/2"	6"
6"	39 9/16"	0"	4.921"	8 3/4"	7 1/4"	11"	18"	39 5/16"	7 1/2"

ANSI Class 300 Drain Valve with standard 60 Degree Straight Neck Discharge									
Valve Size	A Std.	B ± 1/16"*	C ± .002"	D	E	F	H	A Max.	B Max.
2"	23 1/2"	5 1/2"	1.575"	6 1/8"	5 15/16"	6 1/2"	8 1/8"	29 1/2"	11 1/2"
3"	27 3/8"	5 1/2"	2.362"	7 1/4"	7"	8 1/4"	10 3/4"	33 3/8"	11 1/2"
4"	30 1/8"	5 1/2"	3.149"	8 3/4"	8 3/8"	10"	10 3/4"	36 1/8"	11 1/2"
6"	39 5/16"	5 7/8"	4.921"	12"	11"	12 1/2"	18"	39 5/16"	5 7/8"

ANSI Class 300 Drain Valve with standard 45 Degree Straight Neck Discharge									
Valve Size	A Std.	B ± 1/8"*	C ± .002"	D	E	F	H		
2"	26 3/8"	6"	1.575"	6 1/2"	8 1/2"	6 1/2"	8 1/8"		
3"	31 1/2"	6"	2.362"	8 5/8"	11 1/4"	8 1/4"	10 3/4"		
4"	34 3/4"	6"	3.149"	10 3/8"	13 1/16"	10"	10 3/4"		
6"	46 3/8"	6"	4.921"	13 5/8"	17 3/4"	12 1/2"	18"		

ANSI Class 600 Drain Valve with standard 60 Degree Straight Neck Discharge									
Valve Size	A Std.	B ± 1/8"*	C ± .002"	D	E	F	H	A Max.	B Max.
2"	25 1/2"	6"	1.575"	6 11/16"	6 9/16"	6 1/2"	8 1/8"	25 1/2"	6"
3"	29 1/2"	6"	2.362"	8 7/16"	8"	8 1/4"	10 3/4"	29 1/2"	6"
4"	33 1/2"	6"	3.149"	10"	9 5/8"	10 3/4"	10 3/4"	33 1/2"	6"
6"	44 1/8"	6"	4.921"	12 7/8"	12"	14"	18"	44 1/8"	6"

ANSI Class 600 Drain Valve with standard 45 Degree Straight Neck Discharge									
Valve Size	A Std.	B ± 1/8"*	C ± .002"	D	E	F	H		
2"	26 1/2"	6"	1.575"	6 1/2"	8 3/4"	6 1/2"	8 1/8"		
3"	31 11/16"	6"	2.362"	8 5/8"	11 7/16"	8 1/4"	10 3/4"		
4"	35"	6"	3.149"	10 3/8"	13 7/16"	10 3/4"	10 3/4"		
6"	46 7/8"	6"	4.921"	13 5/8"	18 1/4"	14"	18"		

* Strahman piston extensions are measured from the height of the RF for an ANSI standard flange. For ANSI 600 class valves the extension is equal to the actual RF provided by Strahman. For ANSI 150 and 300 class valves the ANSI standard RF height is 1/16" while Strahman provides 3/16" height for piloting as standard. Customers can request a 1/16" RF height for RF-to-RF flange installation and the piston extension will equal the actual distance from the RF. For the Strahman standard (3/16" height) the distance measured from the RF to the tip of the piston will be 1/8" less than the description. Example: 2" ANSI 150 Drain Valve with 6" piston extension will measure 5 7/8" from a standard Strahman RF to the tip of the piston. Piston Extension tolerances tighter than 1/8" available upon request.

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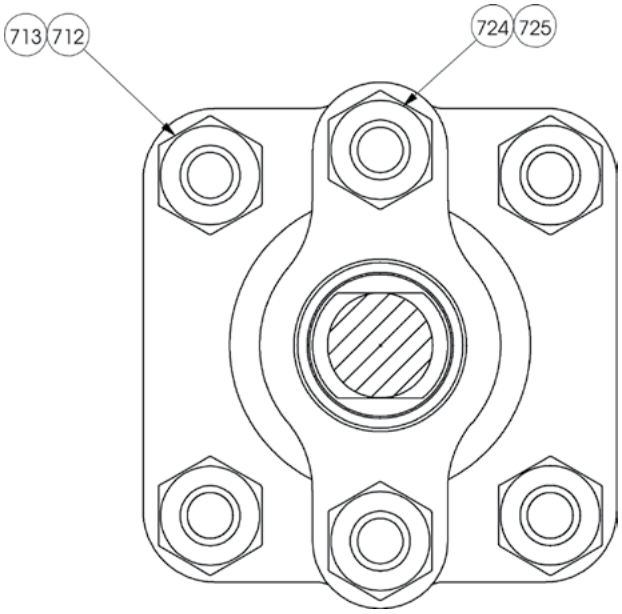
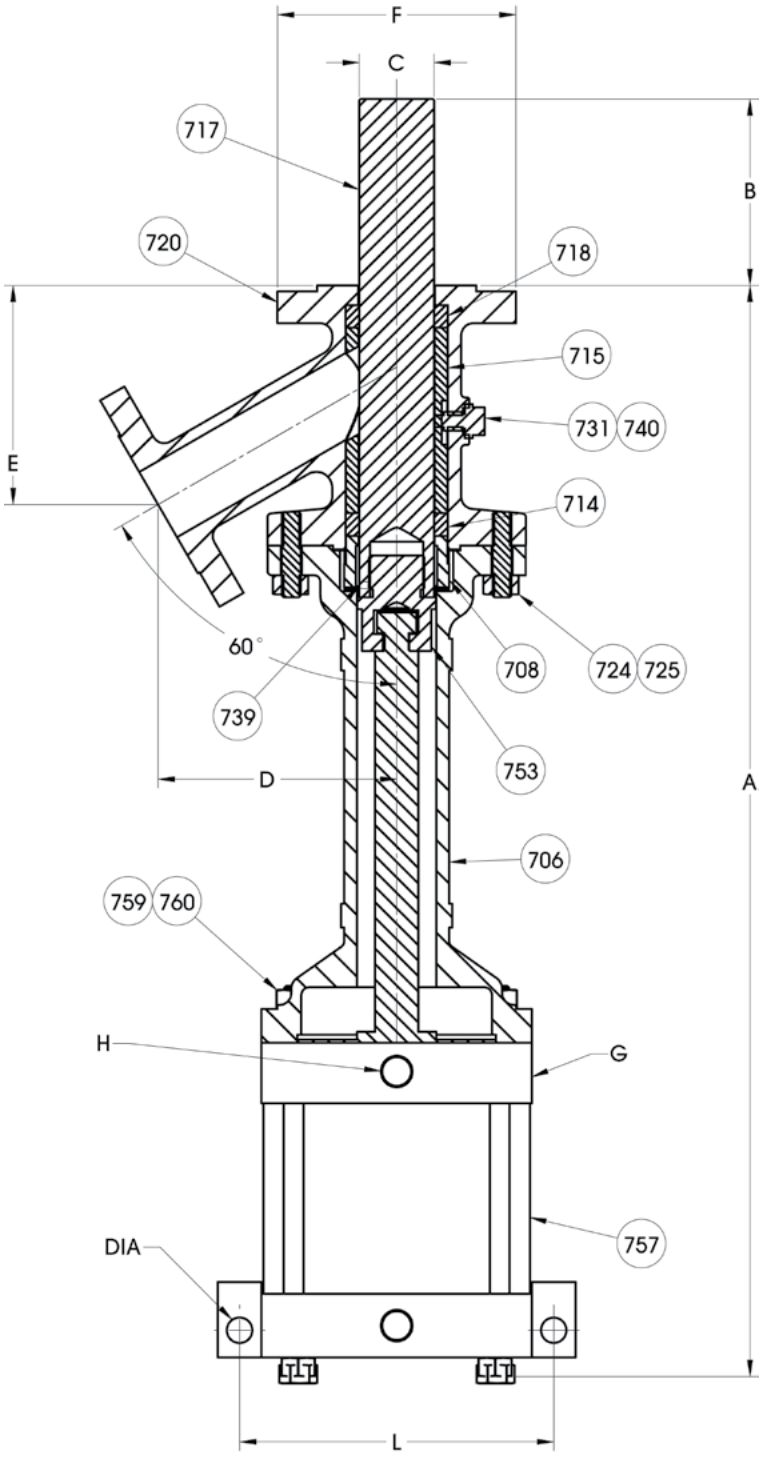
AIR CYLINDER OPERATED RAM-TYPE DRAIN VALVES

Part No.	Description	Std. Material
706	Bonnet	Carbon Steel
708	Gland	304SST
712	Bonnet Nut	316SST
713	Bonnet Stud	304SST
714	Gland Ring *	Braided TFE
715	Cage †	316SST
717	Piston * †	316SST
718	Inlet Ring * †	TFE
720	Body †	316SST
724	Gland Nut	316SST
725	Gland Stud	304SST
731	Cage Lock †	316SST
739	Piston Set Screw	304SST
740	Cage Lock Gasket * †	TFE
753	Piston Connector *	Bronze (SST Avail.)
757	Air Cylinder	
759	Cylinder Stud	304SST
760	Cylinder Nut	316SST

* Indicates recommended spare parts
† Denotes wetted parts



1” through 2 ½” Valve Body Deck



CAUTION

When a Strahman adapter is not supplied with the drain valve, or the customer’s nozzle does not have a piloting recess, the nozzle bore must be ¼” larger than the piston diameter. This clearance prevents the piston from scoring on the inside of the nozzle which could cause the valve to leak.

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ANSI Class 150 Drain Valve with standard 60 Degree Straight Neck Discharge										
Valve Size	A Std.	B ± ⅛"	C ± .002"	D	E	F	G*(NPT)	H*(NPT)	L*	DIA.
1"	22"	2"	0.984"	4 ¼"	3 15/16"	4 ¼"	⅛"	½"	5 ½"	9/16"
1 ½"	24"	2"	1.181"	5"	4 ⅝"	5"	⅛"	½"	6 ⅞"	13/16"
2"	34 ⅞"	6"	1.575"	5 13/16"	5 ⅜"	6"	⅛"	¾"	7 ⅞"	13/16"
2 ½"	38 9/16"	6"	1.968"	6 13/16"	6 ⅝"	7"	⅛"	¾"	7 ⅞"	13/16"
3"	40"	6"	2.362"	7 ½"	6 ¾"	7 ½"	¼"	¾"	9 ⅞"	13/16"
4"	46 1/16"	6"	3.149"	8 13/16"	7 15/16"	9"	¼"	1"	12 ⅜	1 1/16"
6"	56 ⅛"	6"	4.921"	11"	10 ⅜"	11"	¼"	1"	14 ½"	1 1/16"
8"	66 15/16"	6"	5.905"	12 13/16"	11 ⅞"	13 ½"	¼"	1"	14 ½"	1 1/16"

ANSI Class 150 Drain Valve with standard 45 Degree Straight Neck Discharge										
Valve Size	A Std.	B ± ⅛"	C ± .002"	D	E	F	G*(NPT)	H*(NPT)	L*	DIA.
1"	24 ⅜"	2"	0.984"	4 ½"	6 ¼"	4 ¼"	⅛"	½"	5 ½"	9/16"
1 ½"	26 ¾"	2"	1.181"	5 ¼"	7 7/16"	5"	⅛"	½"	6 ⅞"	13/16"
2"	37"	6"	1.575"	6 ½"	8 ⅜"	6"	⅛"	¾"	7 ⅞"	13/16"
3"	48"	6"	2.362"	8 ⅝"	11"	7 ½"	¼"	¾"	9 ⅞"	13/16"
4"	49 ⅛"	6"	3.149"	10 ⅜"	12 ¾"	9"	¼"	1"	12 ⅜	1 1/16"
6"	60 ⅝"	6"	4.921"	13 ⅝"	17 ⅜"	11"	¼"	1"	14 ½"	1 1/16"

ANSI Class 300 Drain Valve with standard 60 Degree Straight Neck Discharge										
Valve Size	A Std.	B ± ⅛"	C ± .002"	D	E	F	G*(NPT)	H*(NPT)	L*	DIA.
1"	23 ¼"	2"	0.984"	4 ⅞"	4 ⅝"	4 ⅞"	⅛"	½"	5 ½"	9/16"
1 ½"	24 ¼"	2"	1.181"	5 ⅝"	5 ¼"	6 ⅛"	⅛"	½"	6 ⅞"	13/16"
2"	35 ⅛"	5 ⅝"	1.575"	6 ⅛"	5 15/16"	6 ½"	⅛"	¾"	7 ⅞"	13/16"
2 ½"	38 13/16"	6"	1.968"	6 ⅞"	6 13/16"	7 ½"	⅛"	¾"	7 ⅞"	13/16"
3"	40 ⅜"	5 ⅝"	2.362"	8 1/16"	7 ½"	8 ¼"	¼"	¾"	9 ⅞"	1 1/16"
4"	46 ⅞"	5 ⅜"	3.149"	9 7/16"	8 13/16"	10"	¼"	1"	12 ⅜"	1 1/16"
6"	56 ⅛"	6"	4.921"	12"	11"	12 ½"	¼"	1"	14 ½"	1 1/16"

ANSI Class 300 Drain Valve with standard 45 Degree Straight Neck Discharge										
Valve Size	A Std.	B ± ⅛"	C ± .002"	D	E	F	G*(NPT)	H*(NPT)	L*	DIA.
1"	24 ⅜"	2"	0.984"	4 ⅝"	6 ⅜"	4 ⅞"	⅛"	½"	5 ½"	9/16"
1 ½"	27"	2"	1.181"	5 5/16"	7 9/16"	6 ⅛"	⅛"	½"	6 ⅞"	13/16"
2"	37 ⅜"	6"	1.575"	6 ½"	8 ½"	6 ½"	⅛"	¾"	7 ⅞"	13/16"
3"	48 ⅜"	6"	2.362"	8 ⅝"	11 ¼"	8 ¼"	¼"	¾"	9 ⅞"	1 1/16"
4"	49 ½"	6"	3.149"	10 ⅜"	13 1/16"	10"	¼"	1"	12 ⅜"	1 1/16"
6"	61 ½"	6"	4.921"	13 ⅝"	17 ¾"	12 ½"	¼"	1"	14 ½"	1 1/16"

ANSI Class 600 Drain Valve with standard 60 Degree Straight Neck Discharge										
Valve Size	A Std.	B ± ⅛"	C ± .002"	D	E	F	G*(NPT)	H*(NPT)	L*	DIA.
1"	23 ⅝"	2"	0.984"	5"	4 ⅞"	4 ⅞"	⅛"	½"	5 ½"	9/16"
1 ½"	25 ⅛"	2"	1.181"	5 ⅞"	5 ¾"	6 ⅛"	⅛"	½"	6 ⅞"	13/16"
2"	36 15/16"	6"	1.575"	6 11/16"	6 9/16"	6 ½"	⅛"	¾"	7 ⅞"	13/16"
3"	47 15/16"	6"	2.362"	8 7/16"	8"	8 ¼"	¼"	1"	9 ⅞"	1 1/16"
4"	53 ⅞"	6"	3.149"	10"	9 ⅝"	10 ¾"	¼"	1"	12 ⅜"	1 1/16"

ANSI Class 600 Drain Valve with standard 45 Degree Straight Neck Discharge										
Valve Size	A Std.	B ± ⅛"	C ± .002"	D	E	F	G*(NPT)	H*(NPT)	L*	DIA.
1"	24 ½"	2"	0.984"	4 ¾"	6 ⅜"	4 ⅞"	⅛"	½"	5 ½"	9/16"
1 ½"	26 ⅝"	2"	1.181"	5 ½"	7 ⅝"	6 ⅛"	⅛"	½"	6 ⅞"	13/16"
2"	37 ⅞"	6"	1.575"	6 ½"	8 ¾"	6 ½"	⅛"	¾"	7 ⅞"	13/16"
3"	50 ½"	6"	2.362"	8 ⅝"	11 7/16"	8 ¼"	¼"	1"	9 ⅞"	1 1/16"
4"	51"	6"	3.149"	10 ⅜"	13 7/16"	10 ¾"	¼"	1"	12 ⅜"	1 1/16"
6"	62 ⅝"	6"	4.921"	13 ⅝"	18 ¼"	14"	¼"	1"	14 ½"	1 1/16"

* Dimensions G, H, L are for Air-Operated Drain Valves. For Hydraulic Drain Valve dimensions, please consult factory. Strahman piston extensions are measured from the height of the RF for an ANSI standard flange. For ANSI 600 class valves the extension is equal to the actual RF provided by Strahman. For ANSI 150 and 300 class valves the ANSI standard RF height is 1/16" while Strahman provides 3/16" height for piloting as standard. Customers can request a 1/16" RF height for RF-to-RF flange installation and the piston extension will equal the actual distance from the RF. For the Strahman standard (3/16" height) the distance measured from the RF to the tip of the piston will be ⅛" less than the description. Example: 2" ANSI 150 Drain Valve with 6" piston extension will measure 5 ⅞" from a standard Strahman RF to the tip of the piston. Piston Extension tolerances tighter than ⅛" available upon request.

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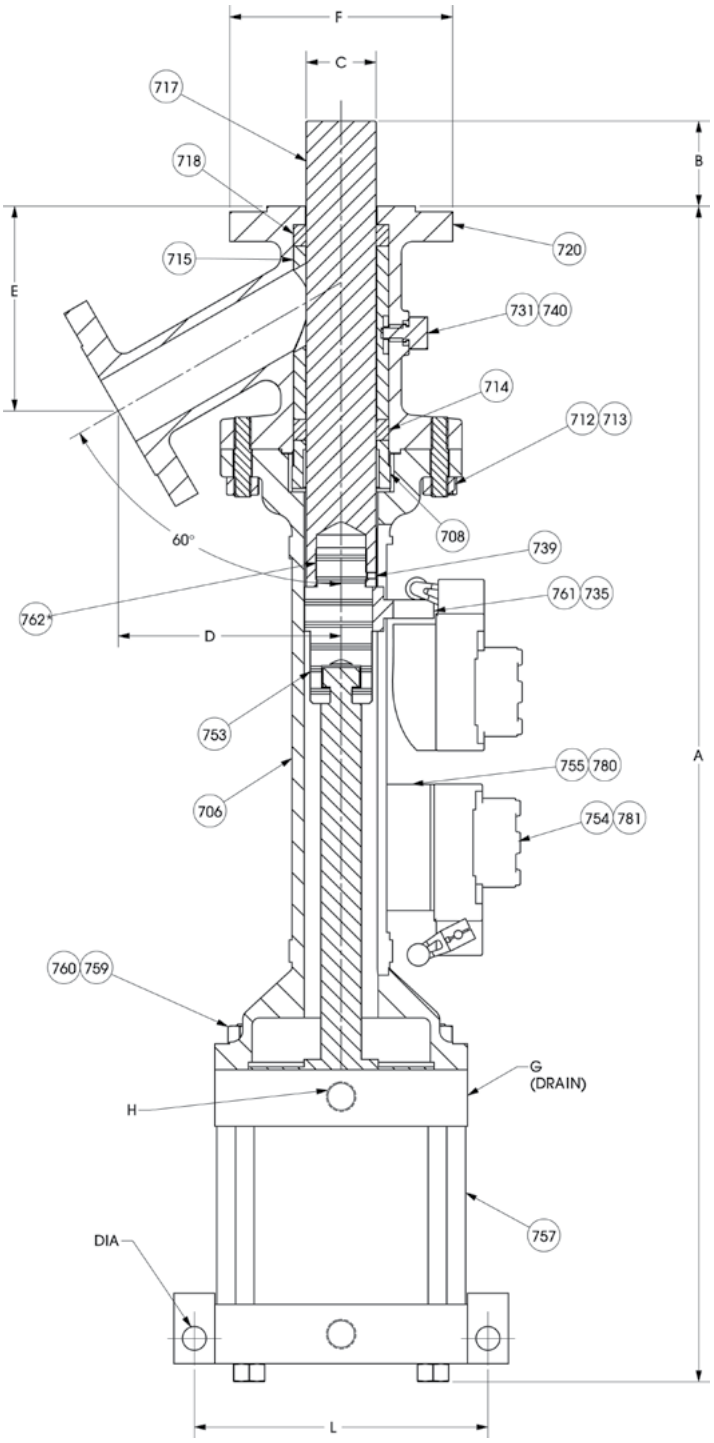
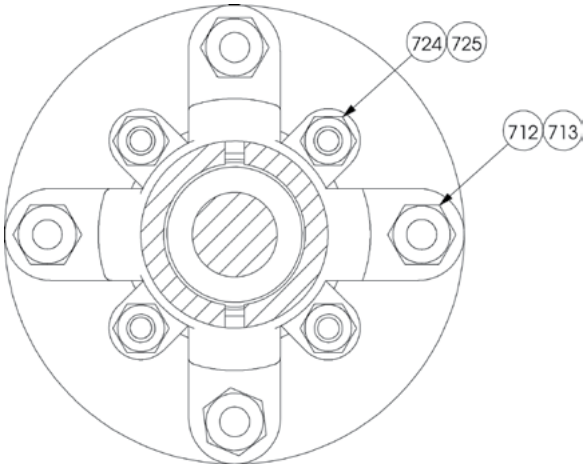
AIR AND HYDRAULIC OPERATED RAM-TYPE DRAIN VALVES WITH INDICATOR SWITCHES

Part No.	Description	Std. Material
706	Bonnet	Carbon Steel
708	Gland	304SST
712	Bonnet Nut	316SST
713	Bonnet Stud	304SST
714	Gland Ring *	Braided TFE
715	Cage †	316SST
717	Piston * †	316SST
718	Inlet Ring * †	TFE
720	Body †	316SST
724	Gland Nut	316SST
725	Gland Stud	304SST
731	Cage Lock †	316SST
733	Collar Pin **	304SST
735	Switch Trip Screw	304SST
739	Piston Set Screw	304SST
740	Cage Lock Gasket * †	TFE
753	Piston Connector *	Bronze (SST Avail.)
754	Indicator Switch	
755	Switch Bracket	304SST
757	Cylinder	
759	Cylinder Stud	304SST
760	Cylinder Nut	316SST
761	Switch Trip	304SST
762	Piston Connector Nut**	304SST
780	Bracket Mtg. Screw	304SST
781	Switch Mtg. Screw	304SST

* Indicates recommended spare parts
** Collar Pin #733 and Piston Connector Nut #762 not shown, only for Hydraulic.
† Denotes wetted parts





3” and Larger Valve Body Deck

CAUTION

When a Strahman adapter is not supplied with the drain valve, or the customer’s nozzle does not have a piloting recess, the nozzle bore must be ¼” larger than the piston diameter. This clearance prevents the piston from scoring on the inside of the nozzle which could cause the valve to leak.

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RAM-TYPE DRAIN VALVES WITH SWITCHES

ANSI Class 150 Drain Valve with standard 45 Degree Straight Neck Discharge						
Valve Size	A Std.	B ± 1/8"	C ± .002"	D	E	F
1"	35 7/8"	6"	0.984"	4 1/2"	6 1/4"	4 1/4"
1 1/2"	38 13/16"	6"	1.181"	5 1/4"	7 7/16"	5"
2"	43 1/2"	6"	1.575"	6 1/2"	8 3/8"	6"
3"	48"	6"	2.362"	8 5/8"	11"	7 1/2"
4"	53 15/16"	6"	3.149"	10 3/8"	12 3/4"	9"
6"	66 7/8"	6"	4.921"	13 5/8"	17 3/8"	11"

Air Switch with 60 Degree Straight Neck Discharge		
Valve Size	A Std.	B ± 1/8"
1"	33 13/16"	6"
1 1/2"	36 3/8"	6"
2"	42 11/16"	6"
2 1/2"	43 3/8"	6"
3"	45 1/4"	6"
4"	51 1/8"	6"
6"	62 3/8"	6"
8"	66 15/16"	6"

Hydraulic Operated with 60 Degree Straight Neck		
Valve Size	A Std.	B ± 1/8"
1"	33 13/16	6"
1 1/2"	36 3/8"	6"
2"	42 11/16	6"
2 1/2"	41 11/16	6"
3"	43 5/16"	6"
4"	46 5/16"	6"
6"	57 3/8"	6"
8"	64 1/2"	6"
10"	75 7/16"	6"
12"	96"	6"

ANSI Class 300 Drain Valve with standard 45 Degree Straight Neck Discharge						
Valve Size	A Std.	B ± 1/8"	C ± .002"	D	E	F
1"	35 7/8"	6"	0.984"	4 5/8"	6 3/8"	4 7/8"
1 1/2"	38 13/16"	6"	1.181"	5 5/16"	7 9/16"	6 1/8"
2"	43 7/8"	6"	1.575"	6 1/2"	8 1/2"	6 1/2"
3"	48 3/8"	6"	2.362"	8 5/8"	11 1/4"	8 1/4"
4"	54 9/16"	6"	3.149"	10 3/8"	13 1/16"	10"
6"	67 3/4"	6"	4.921"	13 5/8"	17 3/4"	12 1/2"

Air Switch with 60 Degree Straight Neck Discharge		
Valve Size	A Std.	B ± 1/8"
1"	34 3/4"	6"
1 1/2"	37 5/16"	6"
2"	43 3/16"	6"
2 1/2"	43 3/8"	6"
3"	45 11/16"	5 5/8"
4"	52 1/4"	6"
6"	62 3/8"	6"

Hydraulic Operated with 60 Degree Straight Neck		
Valve Size	A Std.	B ± 1/8"
1"	34 3/4"	6"
1 1/2"	37 5/16"	6"
2"	43 3/16"	6"
2 1/2"	41 11/16	6"
3"	44 1/16"	6"
4"	47 9/16"	6"
6"	57 3/8"	6"
8"	65 1/2"	6"
10"	75 7/16"	6"
12"	96	6"

ANSI Class 600 Drain Valve with standard 45 Degree Straight Neck Discharge						
Valve Size	A Std.	B ± 1/8"	C ± .002"	D	E	F
1"	35 7/8"	6"	0.984"	4 3/4"	6 3/8"	4 7/8"
1 1/2"	38 3/4"	6"	1.181"	5 1/2"	7 5/8"	6 1/8"
2"	44 3/8"	6"	1.575"	6 1/2"	8 3/4"	6 1/2"
3"	50 1/4"	6"	2.362"	8 5/8"	11 7/16"	8 1/4"
4"	55 13/16"	6"	3.149"	10 3/8"	13 7/16"	10 3/4"
6"	68 7/8"	6"	4.921"	13 5/8"	18 1/4"	14"

Air Switch with 60 Degree Straight Neck Discharge		
Valve Size	A Std.	B ± 1/8"
1"	35 1/8"	6"
1 1/2"	37 15/16"	6"
2"	43 7/16"	6"
3"	47 1/4"	5 5/16"
4"	54 "	6"

Hydraulic Operated with 60 Degree Straight Neck		
Valve Size	A Std.	B ± 1/8"
1"	35 1/8"	6"
1 1/2"	37 15/16"	6"
2"	43 7/16"	6"
3"	44 11/16"	6"
4"	50 3/8"	6"
6"	59 3/8"	6"

* Strahman piston extensions are measured from the height of the RF for an ANSI standard flange. For ANSI 600 class valves the extension is equal to the actual RF provided by Strahman. For ANSI 150 and 300 class valves the ANSI standard RF height is 1/16" while Strahman provides 3/16" height for piloting as standard. Customers can request a 1/16" RF height for RF-to-RF flange installation and the piston extension will equal the actual distance from the RF. For the Strahman standard (3/16" height) the distance measured from the RF to the tip of the piston will be 1/8" less than the description. Example: 2" ANSI 150 Drain Valve with 6" piston extension will measure 5 7/8" from a standard Strahman RF to the tip of the piston. Piston Extension tolerances tighter than 1/8" available upon request.

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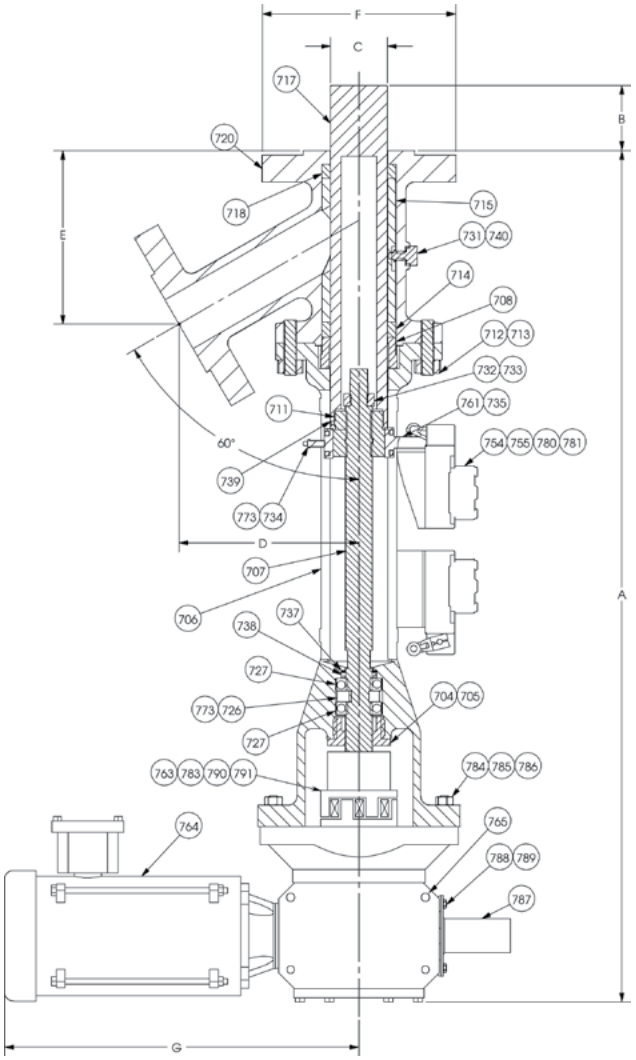
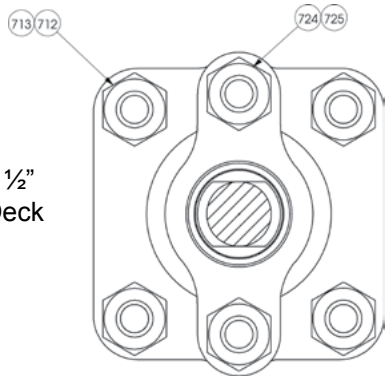
SERIES DV, STANDARD RANGE

ELECTRIC ACTUATOR AND AIR MOTOR OPERATED RAM-TYPE DRAIN VALVES

Part No.	Description	Std. Material
704	Brushing Lock Screw	304SST
705	Insert/Bushing	Bronze /303SST
706	Bonnet	Carbon Steel
707	Stem *	416SST
708	Gland	304SST
711	Crosshead *	Bronze (SST Avail.)
712	Bonnet Nut	316SST
713	Bonnet Stud	304SST
714	Gland Ring *	Braided TFE
715	Cage †	316SST
717	Piston*†	316SST
718	Inlet Ring* †	TFE
720	Body †	316SST
724	Gland Nut	316SST
725	Gland Stud	304SST
726	Bearing Collar	303SST
727	Bearing*	Carbon Steel
731	Cage Lock †	316SST
732	Stem Stop	303SST
733	Stem Stop Pin	304SST
734	Crosshead Guide *	303SST
735	Switch Trip Screw *	304SST
737	Retaining Ring *	303SST
738	Bearing Seal *	TFE
739	Piston Set Screw	304SST
740	Cage Lock Gasket*	RTFE
754	Indicator Switch	
755	Switch Bracket	304SST
761	Switch Trip	304SST
763	Reducer Coupling	
764	Motor	
765	Gear Reducer	
773	Grease Fitting	Steel
780	Bracket Mtg. Screw	304SST
781	Switch Mtg. Screw	304SST
783	Key	
784	Reducer Mtg.Stud	304SST
785	Reducer Mtg. Nut	316SST
786	Reducer Mtg, Washer	304SST
787	Safety Shield	304SST
788	Safety Shield Screw	304SST
789	Safety Shield Washer	304SST
790	Stem Coupling	
791	Insert	Bronze

* Denotes recommended spare parts
† Denotes wetted parts





1" through 2 ½"
Valve Body Deck

CAUTION

When a Strahman adapter is not supplied with the drain valve, or the customer's nozzle does not have a piloting recess, the nozzle bore must be ¼" larger than the piston diameter. This clearance prevents the piston from scoring on the inside of the nozzle which could cause the valve to leak.

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OPERATED RAM-TYPE DRAIN VALVES

ANSI Class 150 Drain Valve with standard 60 Degree Straight Neck Discharge									
Valve Size	A Std.	B ± ⅛"	C ± .002"	D	E	F	G	A Max.	B Max.
2"	41 13/16"	6"	1.575"	5 13/16"	5 ⅜"	6"	18 13/16"	41 13/16"	6"
3"	46"	6"	2.362"	7 ½"	6 ¾"	7 ½"	18 13/16"	46"	6"
4"	47"	6"	3.149"	8 13/16"	7 15/16"	9"	18 13/16"	47"	6"
6"	55 ⅜"	6"	4.921"	11"	10 ⅜"	11"	18 13/16"	61 ⅜"	12"
8"	61"	6"	5.905"	12 13/16"	11 ⅝"	13 ½"	18 13/16"	61"	6"
10"	72 ¾"	6"	7.480"	16 ⅝"	15 ⅝"	16"	18 13/16"	72 ¾"	6"

ANSI Class 150 Drain Valve with standard 45 Degree Straight Neck Discharge
Contact Strahman factory for details

ANSI Class 300 Drain Valve with standard 60 Degree Straight Neck Discharge									
Valve Size	A Std.	B ± ⅛"	C ± .002"	D	E	F	G	A Max.	B Max.
2"	42 3/16"	6"	1.575"	6 ⅛"	5 15/16"	6 ½"	18 13/16"	42 13/16"	6"
3"	46 ⅜"	6"	2.362"	8 1/16"	7 ½"	8 ¼"	18 13/16"	46 ⅜"	6"
4"	47 ½"	5 ½	3.149"	9 7/16"	8 13/16"	10"	18 13/16"	47 ½"	5 ½"
6"	55 ⅜"	6"	4.921"	12"	11"	12 ½"	18 13/16"	61 ⅜"	12"
8"	61 ½"	6"	5.905"	13 9/16"	12 13/16"	15"	18 13/16"	61 ½"	6"
10"	72 ¾"	6"	7.480"	16 ⅝	15 ⅝"	17 ½"	20 9/16"	72 ¾"	6"

ANSI Class 600 Drain Valve with standard 60 Degree Straight Neck Discharge									
Valve Size	A Std.	B ± ⅛"	C ± .002"	D	E	F	G	A Max.	B Max.
2"	42 13/16"	6"	1.575"	6 11/16"	6 9/16"	6 ½"	18 13/16"	42 13/16"	6"
3"	46 9/16"	6"	2.362"	8 7/16"	8"	8 ¼"	18 13/16"	46 9/16"	6"
4"	48 1/16"	4 15/16"	3.149"	10"	9 ⅝"	10 ¾"	18 13/16"	48 1/16"	4 15/16"
6"	59 3/16"	6"	4.921"	12 ⅞"	12"	14"	18 13/16"	59 3/16"	6"

* Strahman piston extensions are measured from the height of the RF for an ANSI standard flange. For ANSI 600 class valves the extension is equal to the actual RF provided by Strahman. For ANSI 150 and 300 class valves the ANSI standard RF height is 1/16" while Strahman provides 3/16" height for piloting as standard. Customers can request a 1/16" RF height for RF-to-RF flange installation and the piston extension will equal the actual distance from the RF. For the Strahman standard (3/16" height) the distance measured from the RF to the tip of the piston will be ⅛" less than the description. Example: 2" ANSI 150 Drain Valve with 6" piston extension will measure 5 ⅞" from a standard Strahman RF to the tip of the piston. Piston extension tolerances tighter than ⅛" available upon request.

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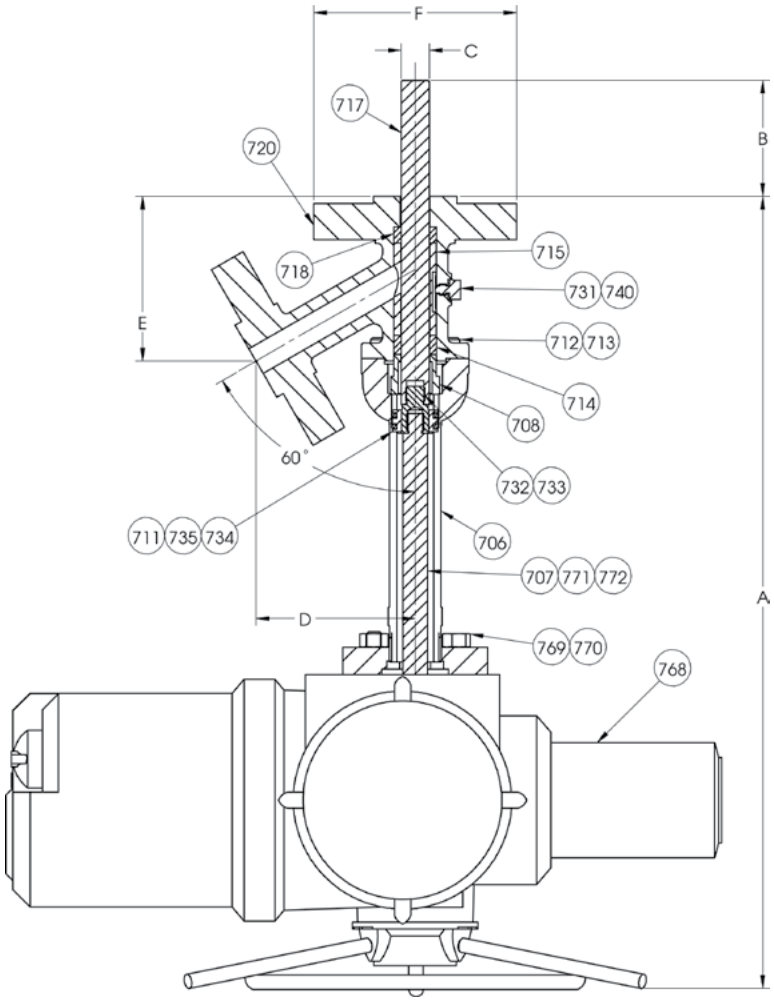
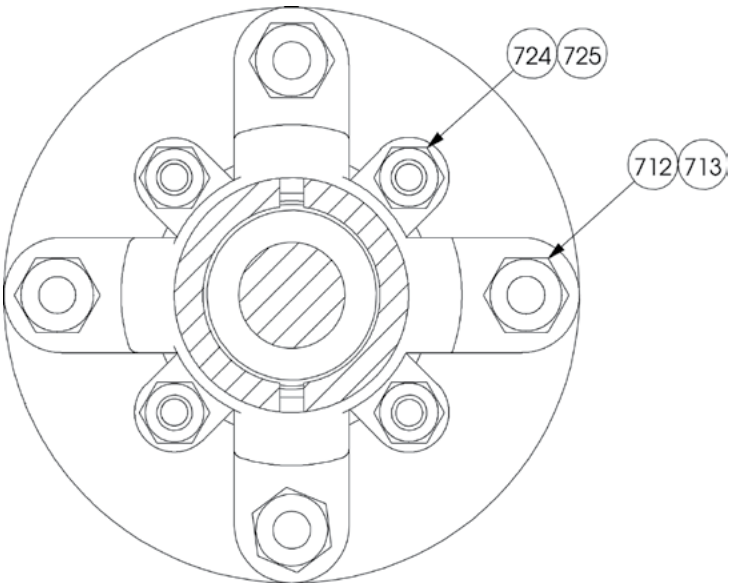
SERIES D1, STANDARD RANGE

ROTORK OPERATED RAM-TYPE DRAIN VALVES

Part No.	Description	Std. Material
706	Bonnet	Carbon Steel
707	Stem *	416SST
708	Gland	304SST
711	Crosshead *	Bronze (SST Avail.)
712	Bonnet Nut	316SST
713	Bonnet Stud	304SST
714	Gland Ring * †	Braided TFE
715	Cage †	316SST
717	Piston *†	316SST
718	Inlet Ring * †	TFE
720	Body †	316SST
724	Gland Nut	316SST
725	Gland Stud	304SST
731	Cage Lock †	316SST
732	Stop Collar	303SST
733	Collar Pin	304SST
734	Crosshead Guide*	304SST
735	Guide Screw*	304SST
739	Piston Set Screw	304SST
740	Cage Lock Gasket*	TFE
768	Rotork Actuator	
769	Rotork Mtg. Stud	304SST
770	Rotork Mtg. Nut	316SST
771	Stem Washer	302SST
772	Stem Nut	304SST

* Denotes recommended spare parts
† Denotes wetted parts





3” and Larger Valve Body Deck

Rotork Operated
Drain Valve

CAUTION

When a Strahman adapter is not supplied with the drain valve, or the customer’s nozzle does not have a piloting recess, the nozzle bore must be ¼” larger than the piston diameter. This clearance prevents the piston from scoring on the inside of the nozzle which could cause the valve to leak.

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RAM-TYPE DRAIN VALVES

ANSI Class 150 Drain Valve with standard 60 Degree Straight Neck Discharge						
Valve Size	A Std.	B ± ⅛"	C ± .002"	D	E	F
2"	35 11/16"	6"	1.575"	5 13/16"	5 ⅜"	6"
3"	43 ⅛"	6"	2.362"	7 ½"	6 ¾"	7 ½"
4"	45 7/16"	6"	3.149"	8 13/16"	7 15/16"	9"
6"	54 3/16"	6"	4.921"	11"	10 ⅜"	11"
8"	62 ⅜"	6"	5.905"	12 13/16"	11 ⅞"	13 ½"
10"	70 ⅜"	6"	7.480"	16 ⅝"	15 ⅝"	16"

ANSI Class 150 Drain Valve with standard 45 Degree Straight Neck Discharge
Contact Strahman factory for details

ANSI Class 300 Drain Valve with standard 60 Degree Straight Neck Discharge						
Valve Size	A Std.	B ± ⅛"	C ± .002"	D	E	F
2"	36 ⅝"	6"	1.575"	6 ⅛"	5 15/16"	6 ½"
3"	43 13/16"	6"	2.362"	8 1/16"	7 ½"	8 ¼"
4"	46 1/16"	6"	3.149"	9 7/16"	8 13/16"	10"
6"	56 1/16"	6"	4.921"	12"	11"	12 ½"
8"	64 13/16"	6"	5.905"	13 9/16"	12 13/16"	15"
10"	70 ⅜"	6"	7.480"	16 ⅝	15 ⅝"	17 ½"

ANSI Class 600 Drain Valve with standard 60 Degree Straight Neck Discharge						
Valve Size	A Std.	B ± ⅛"	C ± .002"	D	E	F
2"	36 11/16"	6"	1.575"	6 11/16"	6 9/16"	6 ½"
3"	45 11/16"	6"	2.362"	8 7/16"	8"	8 ¼"
4"	49"	6"	3.149"	10"	9 ⅝"	10 ¾"
6"	59 9/16"	6"	4.921"	12"	12"	14"

* Strahman piston extensions are measured from the height of the RF for an ANSI standard flange. For ANSI 600 class valves the extension is equal to the actual RF provided by Strahman. For ANSI 150 and 300 class valves the ANSI standard RF height is 1/16" while Strahman provides 3/16" height for piloting as standard. Customers can request a 1/16" RF height for RF-to-RF flange installation and the piston extension will equal the actual distance from the RF. For the Strahman standard (3/16" height) the distance measured from the RF to the tip of the piston will be ⅛" less than the description. Example: 2" ANSI 150 Drain Valve with 6" piston extension will measure 5 ⅞" from a standard Strahman RF to the tip of the piston. Piston extension tolerances tighter than ⅛" available upon request.

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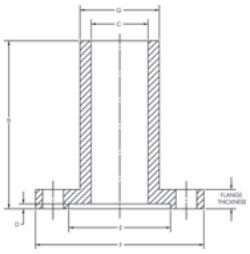
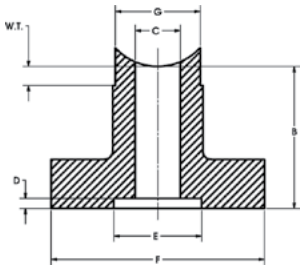
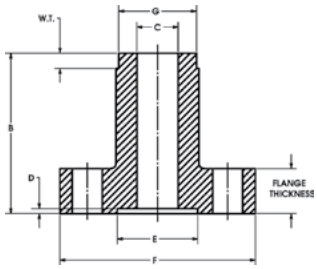
OPTIONAL ADAPTERS FOR DEAD SPACE FREE CONNECTION TO PROCESS



Drain Valve Adapter



Contoured Nozzle



Non-Contoured Nozzle

ANSI Class 150 Adapters							
Flange Size	Flange Thickness	C	D	E	F	B Std	G
1”	½”	1.031”	⅛”	2.007”	4 ¼”	2”	
1 ½”	⅝”	1.230”	11/64”	2.882”	5”	2”	
2”	11/16”	1.630”	11/64”	3.632”	6”	6”	
2 ½”	¾”	2.031”	11/64”	4.132”	7”	6”	
3”	¾”	2.420”	3/16”	5.007”	7 ½”	6”	
4”	⅞”	3.211”	3/16”	6.194”	9”	6”	
6”	15/16”	4.983”	3/16”	8.507”	11”	6”	
8”	1 1/16”	5.967”	3/16”	10.632”	13 ½”	6”	
10”	1 ⅛”	7.541”	3/16”	12.757”	16”	6”	
12”	1 3/16”	11.062”	3/16”	15.007”	19”	6”	

ANSI Class 300 Adapters							
Flange Size	Flange Thickness	C	D	E	F	B Std	G
1”	½”	1.031”	⅛”	2.007”	4 ⅞”	2”	
1 ½”	⅝”	1.230”	11/64”	2.882”	6 ⅛”	2”	
2”	11/16”	1.630”	11/64”	3.632”	6 ½”	5 ½”	
2 ½”	¾”	2.031”	11/64”	4.132”	7 ½”	5 ½”	
3”	¾”	2.420”	3/16”	5.007”	8 ¼”	5 ½”	
4”	⅞”	3.211”	3/16”	6.194”	10”	5 ½”	
6”	15/16”	4.983”	3/16”	8.507”	12 ½”	5 ½”	
8”	1 1/16”	5.967”	3/16”	10.632”	15”	6”	
10”	1 ⅛”	7.541”	3/16”	12.757”	17 ½”	6”	
12”	1 3/16”	11.062”	3/16”	15.004”	20 ½”	6”	

ANSI Class 600 Adapters							
Flange Size	Flange Thickness	C	D	E	F	B Std	G
1”	9/16”	1.031”	15/64”	2.007”	4 ⅞”	2 3/16”	
1 ½”	⅝”	1.230”	15/64”	2.882”	6 ⅛”	2 3/16”	
2”	11/16”	1.630”	15/64”	3.632”	6 ½”	6 3/16”	
3”	¾”	2.420”	15/64”	5.007”	8 ¼”	6 3/16”	
4”	⅞”	3.211”	15/64”	6.194”	10 ¾”	6 3/16”	
6”	15/16”	4.983”	15/64”	8.507”	14”	6 3/16”	
8”	1 1/16”	5.967”	15/64”	10.632”	16 ½”	6 3/16”	

Adapter Drilling: ANSI standard, bolt holes straddle centerlines.
For adapters with sampling valves contact Strahman direct.

ANSI Class 150 Nozzles							
Flange Size	Flange Thickness	C	D	E	F	B Std	G
1”	1”	1.031”	⅛”	2.007”	4 ¼”	6”	1 ⅞”
1 ½”	1”	1.230”	11/64”	2.882”	5”	6”	2 ⅛”
2”	1 ⅛”	1.630”	11/64”	3.632”	6”	6”	2 ½”
2 ½”	1 ⅛”	2.031”	11/64”	4.132”	7”	6”	2 15/16”
3”	1 3/16”	2.420”	3/16”	5.007”	7 ½”	6”	3 ⅜”
4”	1 3/16”	3.211”	3/16”	6.194”	9”	6”	4 ⅜”
6”	1 ¼”	4.983”	3/16”	8.507”	11”	6”	6 ⅛”
8”	1 ⅜”	5.967”	3/16”	10.632”	13 ½”	6”	7 ¼”
10”	1 7/16”	7.541”	3/16”	12.757”	16”	6”	9 ⅛”
12”	1 ½”	11.062”	3/16”	15.007”	19”	6”	13 ¼”

ANSI Class 300 Nozzles							
Flange Size	Flange Thickness	C	D	E	F	B Std	G
1”	1 ⅛”	1.031”	⅛”	2.007”	4 ⅞”	6”	1 15/16”
1 ½”	1 ⅛”	1.230”	11/64”	2.882”	6 ⅛”	6”	2 ⅛”
2”	1 ⅛”	1.630”	11/64”	3.632”	6 ½”	6”	2 ½”
2 ½”	1 ¼”	2.031”	11/64”	4.132”	7 ½”	6”	2 15/16”
3”	1 ⅜”	2.420”	3/16”	5.007”	8 ¼”	6”	3 ⅜”
4”	1 ½”	3.211”	3/16”	6.194”	10”	6”	4 ⅜”
6”	1 11/16”	4.983”	3/16”	8.507”	12 ½”	6”	6 ⅛”
8”	1 ⅞”	5.967”	3/16”	10.632”	15”	6”	7 ¼”
10”	2 ⅛”	7.541”	3/16”	12.757”	17 ½”	6”	9 ⅛”
12”	2 ¼”	11.062”	3/16”	15.007”	20 ½”	6”	13 ¼”

ANSI Class 600 Nozzles							
Flange Size	Flange Thickness	C	D	E	F	B Std	G
1”	1 ⅛”	1.031”	15/64”	2.007”	4 ⅞”	6 3/16”	1 15/16”
1 ½”	1 ⅛”	1.230”	15/64”	2.882”	6 ⅛”	6 3/16”	2 ⅛”
2”	1 ¼”	1.630”	15/64”	3.632”	6 ½”	6 3/16”	2 ½”
3”	1 ½”	2.420”	15/64”	5.007”	8 ¼”	6 3/16”	3 ⅜”
4”	1 ¾”	3.211”	15/64”	6.194”	10 ¾”	6 3/16”	4 ⅜”
6”	2 ⅛”	4.983”	15/64”	8.507”	14”	6 3/16”	6 ⅛”

Nozzle Drilling: ANSI standard, bolt holes straddle centerlines.
For nozzles with sampling valves contact Strahman direct.

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TECHNICAL AND GENERAL INFORMATION

FEATURES

- Extended body for flush connection to the process
- Combinations of extended body and extended piston
- Outlet angles to customer requirements
- Integral welded jackets
- Extended stuffing box with live loaded packing
- Inlet or outlet flanges in different sizes
- Connection flanges to any standard or custom design
- Custom made port sizes to optimize flow
- Wide range of metallurgy available

DESIGN CODE AND CONSTRUCTION

- Design standard compliant with ASME B16.34
- International standards include ANSI, DIN, JIS, API etc.
- Wide range of material selections including carbon steel / stainless steel / Titanium / Hastelloy / Duplex / Monel / Tantalum / Zirconium
- Fabricated, cast, forged and bar stock designs
- Combinations of fabricated, sand and investment castings, and bar stock available

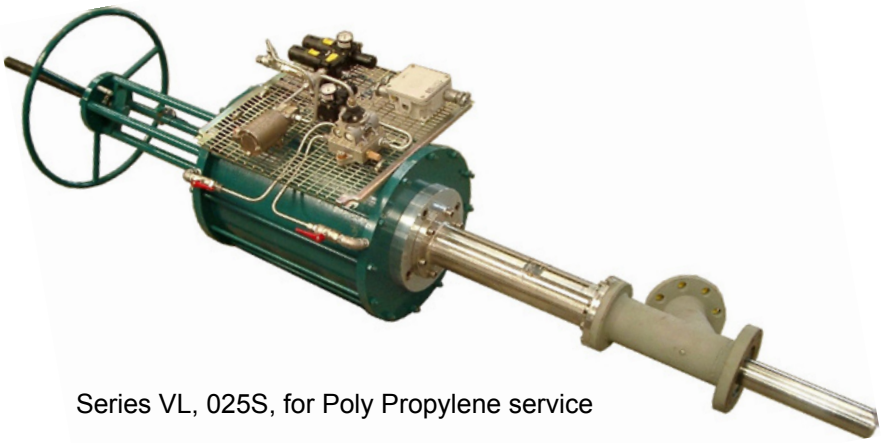
SURFACE FINISH

- For polymer applications, Strahman recommends a surface finish of 300 (Ra 0.4) for all parts are in contact with the medium

QUALITY ASSURANCE AND TESTING

- ISO 9001 compliant
- PED / ATEX / CE marking
- TUV / HPO / TA Luft
- Standard testing procedures
- CU TR 010
- CU TR 032

RANGE DEFINITION													
VL Manufacturing Range	PN 10	PN 16	PN 20-150 lbs.	PN 25	PN 40	PN 50 300 lbs.	PN 64 400 lbs.	PN 100 600 lbs.	PN 150/160-900 lbs.	PN 250 - 1500 lbs.	PN 320	PN 420 - 2500 lbs.	PN 630 - 4500 lbs.
⅜" - DIN10	Fig. 020												
½" - DIN15													
¾" - DIN20													
1" - DIN25													
1 ¼" - DIN32	Fig. 025												
1 ½" - DIN40													
2" - DIN50													
2 ½" - DIN65													
3" - DIN80													
4" - DIN100													
5" - DIN125													
6" - DIN150													
8" - DIN200													
10" - DIN250													
12" - DIN300													
14" - DIN350													
16" - DIN400													
18" - DIN450													
20" - DIN500													
24" - DIN600													



Series VL, 025S, for Poly Propylene service

Series VL, 025D with integral Welded Jacket

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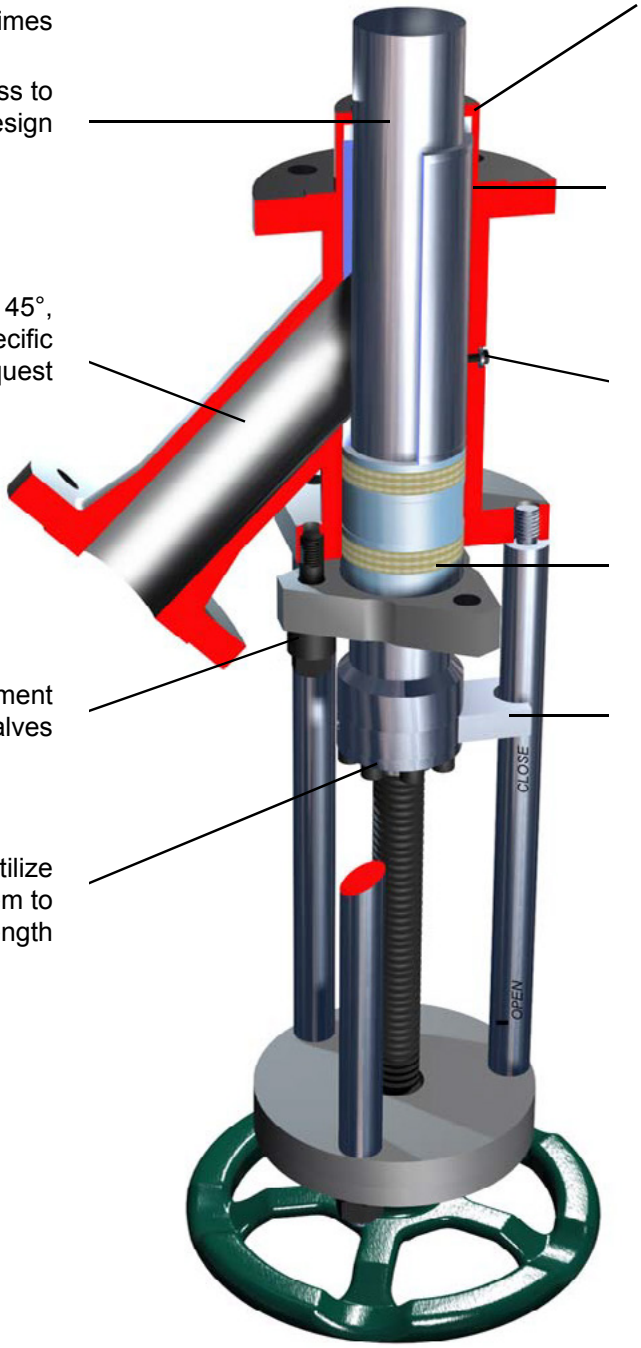

Fig. 025S

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BODY ARRANGEMENTS

The Strahman VL series uses the following two stem designs:

- Figure 020 for small piston sizes to approximately 25 mm (1”) uses a rising stem design
- Figure 025 for piston sizes 32 mm and larger uses a non-rising stem design

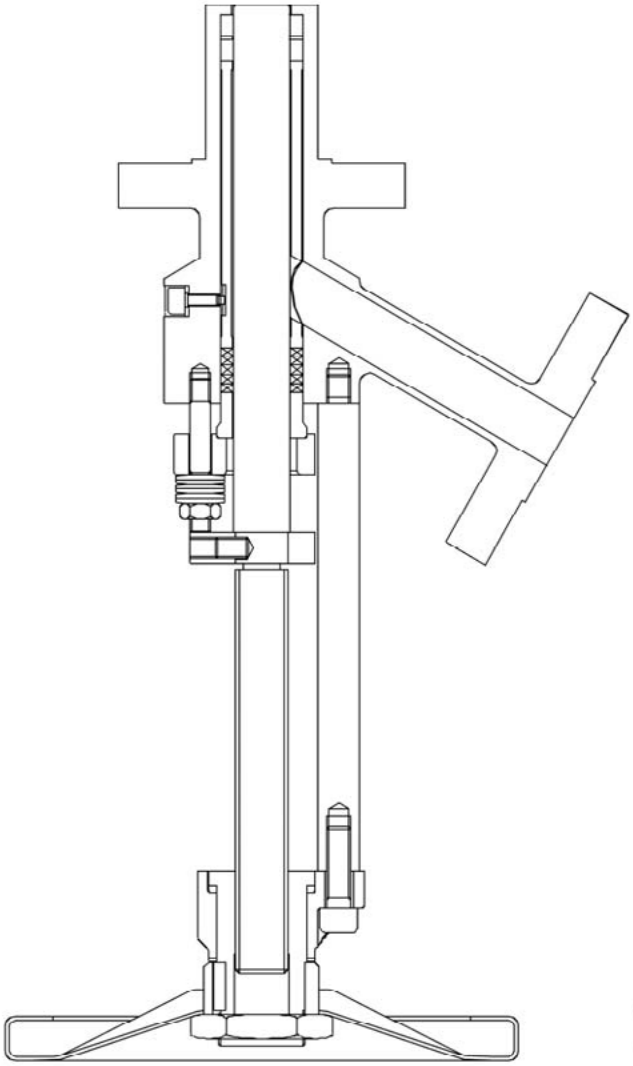

Fig. 020

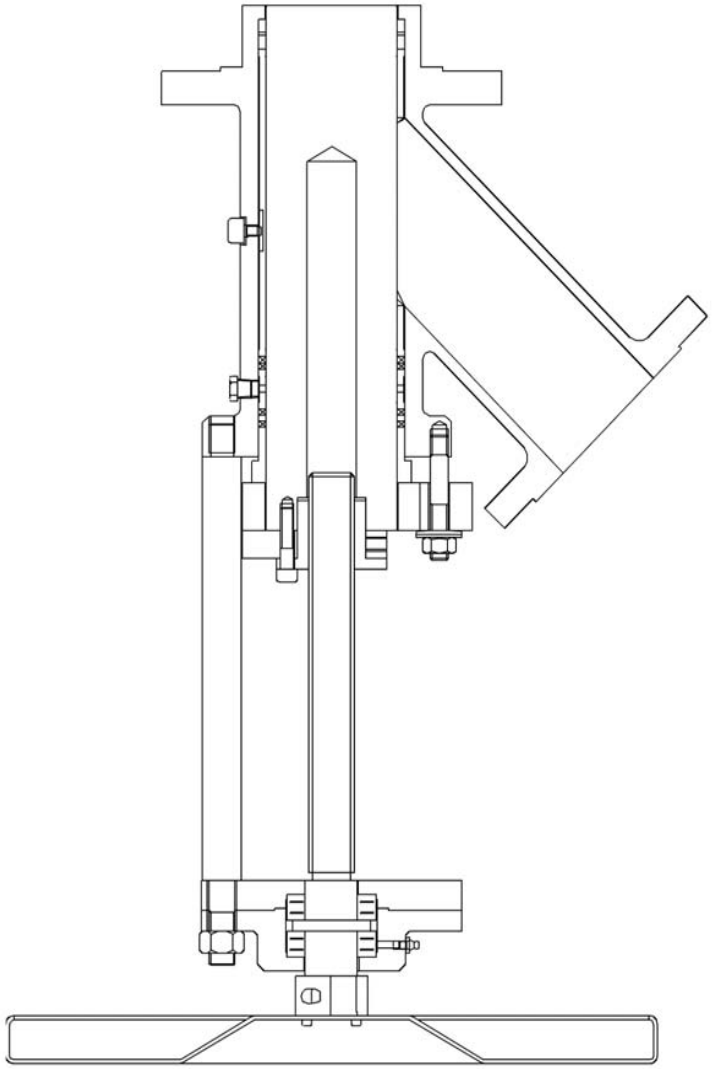

Fig. 025

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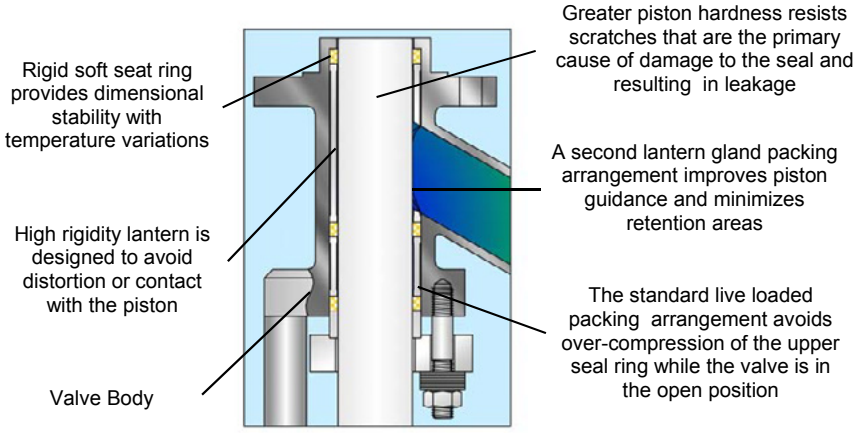
BODY ARRANGEMENTS

SOFT SEAL

The Soft Seal is a seat-less sealing system that assures superior performance. While closing, the plunger moves through the valve bore and effectively rods any remaining product out of the valve.

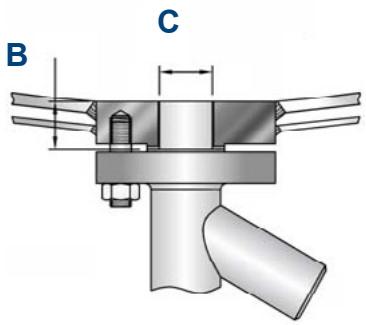
- **Temperature:** Min.: -50°C / -60°F
  Max.: 200°C / 1000°F
- **Pressure:** 100 bar / 1450 PSIG



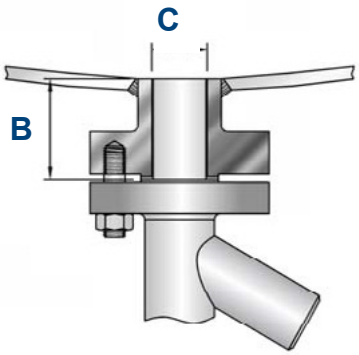
VESSEL CONNECTIONS

To connect valves to existing vessels or reactors, there are two possibilities: a nozzle or a pad connection. In both cases, the customer must specify the following vessel connection details: **C** (inside diameter), **B** (height), **DN** (nominal size), **PN** (pressure rating) and connection **standard** (ISO, ANSI, DIN, etc.). To eliminate retention areas radius **R** can be specified for optional contouring. For new projects, Strahman can supply valves with easy-to-fit standardized pads that are ready to be installed.

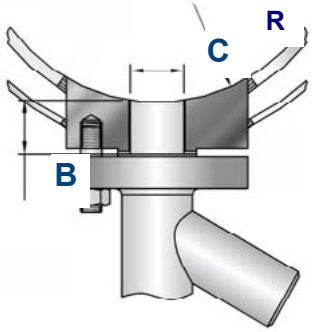
Vessel Pad



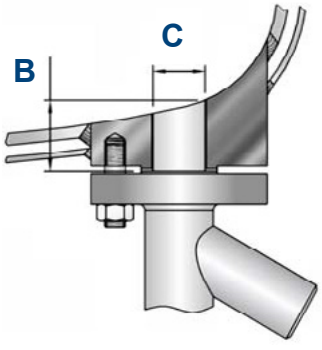
Vessel Nozzle



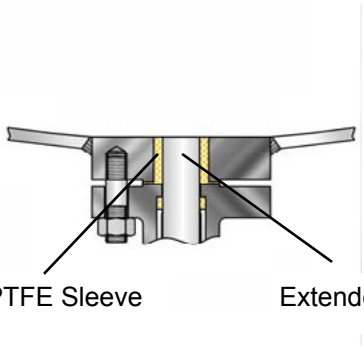
Pipe Assembly Pad



Custom Vessel Pad



Top Hat



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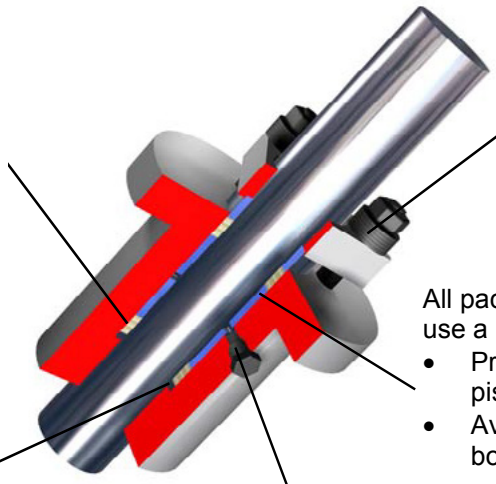
PACKING DEFINITION

Typical Packing Materials:

- PTFE
- PTFE / Aramide Braid
- Carbon / Graphite Braid
- Graphite Braid
- PTFE / Aramide Braid + Graphite
- Lamellar + Expanded Graphite
- Pure Graphite



Live loaded packing arrangement minimizes valve maintenance

All packing arrangements use a lantern ring that:

- Provides better stem piston guiding
- Avoids dead space in body cavities

Bottom ring material is selected with a differential hardness from the piston to prevent piston damage

Optional 1/4 inch NPTF available for leak detection or inert gas injection to avoid leakage to atmosphere by creating an over pressure

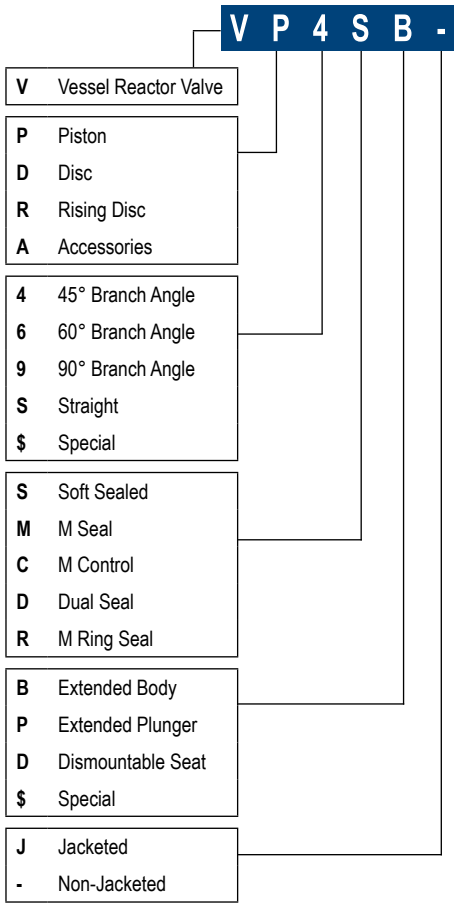
STANDARD PAD GASKET RANGE

- PTFE
- Aramide / Nitrile
- Laminated Graphite
- Laminated Graphite / 316
- Spiral Wound 316L / PTFE
- Spiral Wound 316L / Graphite
- Spiral Wound 321 / Graphite
- Spiral Wound Inconel / Graphite
- Spiral Wound Titanium / Graphite
- Perfluoroelastomer (Kalrez) O Ring
- Welded Lips
- Metallic O Ring Helicoflex Gasket Aluminum / 316
- Metallic O Ring Helicoflex Gasket Nickel / Nimonic 90
- 316L RTJ
- Nitrile O Ring
- EPDM O Ring
- Silicone O Ring
- Fluorocarbon (Viton) O Ring
- Silicone FEP Jacketed O Ring

STANDARD BODY GASKET RANGE

- PTFE
- Aramide / Nitrile
- Carbon / Nitrile
- Laminated Graphite
- Laminated Graphite / 316
- Spiral Wound 316L / PTFE
- Spiral Wound 316L / Graphite
- Spiral Wound 321 / Graphite
- Spiral Wound Inconel / Graphite
- Spiral Wound Titanium / Graphite
- Welded Lips

VALVE CODING SYSTEM



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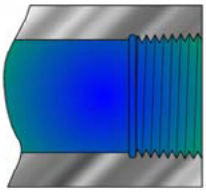
LINE AND BRANCH CONNECTIONS

Soft Seal Valves can be equipped with the following end connections:

Flanges ANSI, DIN, JIS



Threaded connections NPT & BSP

ACTUATION OPTIONS

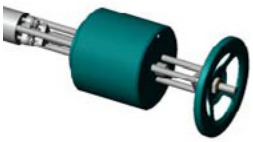
Hand Wheel

Bevel Gear

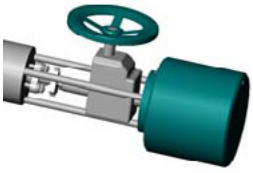
Electric Actuator

Air Motor

Double or single acting Air Cylinder



Double or single acting Air Cylinder with Safety Hand Wheel



Double or single acting Air Cylinder with side mounted Safety Hand Wheel

Hydraulic Cylinder

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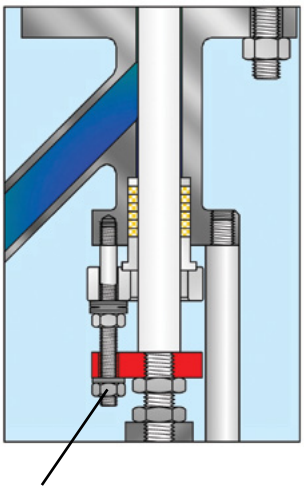
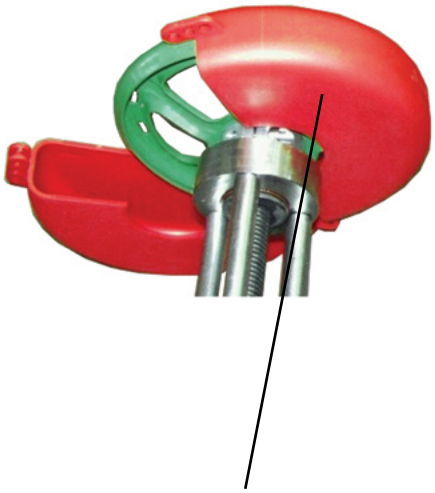
PISTON LOCKING DEVICE

Often times safety regulations require an additional locking device to keep a valve closed. Strahman provides three different arrangements.

Arrangement A
Special half pipe blocks the stem within top works and prevents valve from stroking



Arrangement B
Extended stuffing box bolts provide locking with special position indicator.



Arrangement C
Lockable handwheel cover.

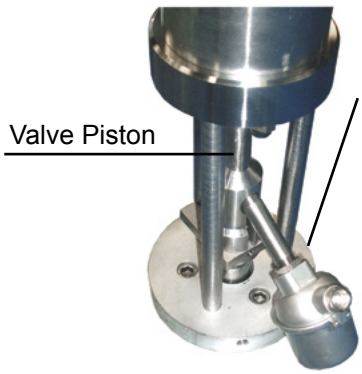
TEMPERATURE PROBE IN THE PISTON RTD SENSORS

A bottom valve is located right in the middle of your process. For this reason, an optional temperature probe installed in the piston will provide you with temperature information without the need of any extra nozzle or reactor modification.

For temperature sensitive processes, Strahman Valves offers piston-mounted single or dual Resistance Temperature Detectors (RTDs). The standard RTD unit has a platinum element and is available in materials to match the wetted parts of the drain valve.

Drain valves with RTDs provide several advantages over traditional thermocouples. Temperature sampling and vessel draining can be done from the same vessel nozzle. Since the drain valve is typically mounted to the bottom of the vessel, the location of the RTD at the end of the drain valve piston allows for a better temperature reading than a thermocouple mounted above the vessel agitator. RTDs provide a more stable and repeatable operation than thermocouples.

Each RTD equipped drain valve is complete with a bonnet-mounted junction box. The signal output of a RTD can be connected to a computer or data collector. An optional valve mounted temperature transmitter is also available.



Single or Double PT100
Temperature Probe.
Ex-proof or standard.
Temperature range:
-50°C / 400°C
-60°F / 750°F

Piston Mounted
RTD Sensor

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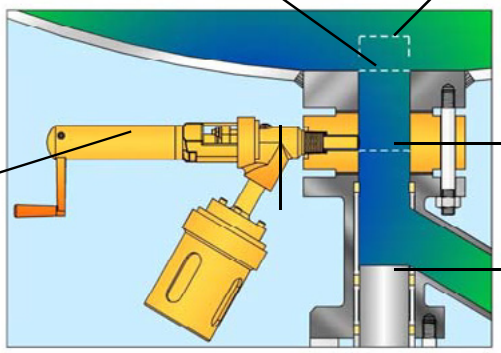
MULTI POSITION AND BOTTOM VESSEL SAMPLING
OPTIONAL CRUST BREAKING AND SAMPLING POSITION

An option exclusive to soft seal piston valves is the multiple piston position. This particular arrangement allows to move the piston while still sealing between process and outlet. This way a multi-purpose valve becomes a multi-purpose tool.

1. The ram can extend into the tank (Fig. 1). This breaks through any crust or build-up that may form on the tank bottom. The normal piston position is flush with the tank bottom.
2. The piston completely fills the valve bore so the valve cannot clog.
3. As the valve opens, the piston retracts (Fig. 2). Before the drain valve opens, the piston clears the insert ring/flange and a sample can be taken.
4. After taking the sample and closing the sampling valve, the piston continues to retract until the drain valve opens and drains the tank. (Fig. 3)
5. After draining the tank, the ram valve can be closed. The piston extends through the insert ring/flange and into the tank removing all material.

Step 1
Valve is closed and piston is flush with vessel bottom

Step 2
Piston is raised to break through the crust in the bottom of the vessel



Step 3
Piston is retracted to the sampling position

Step 4
Piston is open to the drain position

Bottom Vessel Sampling
A Strahman sampling valve combined with a sampling assembly can be used to sample product prior to tank draining

Fig. 1 - Drain Valve Fully Closed

Fig. 2 - Drain Valve Open for Sample

Fig. 3 - Drain Valve Fully Open

*Shown: Strahman Insert and Sampling Valve in conjunction with the Ram-Type Drain Valve

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THE STRAHMAN FAMILY OF PRODUCTS INCLUDE:

Strahman WASHDOWN EQUIPMENT

BI-TORQ VALVE AUTOMATION

Strahman PROCESS VALVES

WASH DOWN EQUIPMENT

Strahman offers a full line of mixing units, hose stations, hoses, nozzles, and wash down accessories designed for industrial use for a wide variety of industry including food & beverage processing, meat & poultry, agriculture, pharmaceutical, research laboratories, chemical, wineries, breweries, and more.

AUTOMATED VALVES & THERMAL SHUT-OFF VALVES

Strahman automated valve packages with floating ball valves and resilient seated butterfly valves come complete with electric or pneumatic actuators for a wide array of industrial applications. Additionally, a full suite of API 607 fire safe valve products are offered as actuated units or to be used in conjunction with our FM approved thermal shut-off assemblies. Resettable Emergency Block Valves (R-EBV) are also available for the oil & gas and chemical industries.

VALVES & LINE BLINDS

Strahman's portfolio includes: sampling valves, drain valves, gate valves, diverter and piston-type valves, ball valves, and line blinds for the control of fluid and gases in the pipeline system. Strahman also provides custom solutions for industry where products manufactured in batch and continuous process require consistent high quality and safety. Strahman serves a wide variety of industries and process applications including oil refinery, pulp and paper, and chemical.

CONTACT US

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