

The elevated tank, standpipe or storage reservoir is a common and important element found in many water distribution systems- municipal, fire protection, commercial, military and industrial.

The function of the OCV Series 3330 Altitude Control Valve is accurate, automatic level control, without the use of floats or sensors. Pilot controls for the series can accommodate storage facilities up to 230 feet high, maintaining the liquid level to within inches of a predetermined set point.

The series is offered in two basic types. The Model 3331, one-way flow is used for tank fill only. The Model 3333 allows flow both into and out of the tank.

SERIES FEATURES

- Consistently maintains water level to within inches of set point in tank/reservoirs from 5 to 230 Ft high.
- Installs at the base of tank.
- Operates hydraulically without need for a tank-mounted float or electrical controls or sensors.

VALVE FEATURES

Model 3331 shown

- Operates automatically off line pressure.
- Heavy-duty, nylonreinforced diaphragm.
- Rectangular-shaped, soft seat seal provides driptight Class VI closure.
- Diaphragm assembly guided top and bottom.
- Throttling seat retainer for flow and pressure stability.
- Easily maintained without removal from the line.
- ► Replaceable seat ring.
- Alignment pins assure proper reassembly after maintenance.
- Valves are factory tested.
- Valves are serial numbered and registered to facilitate replacement parts and factory support.

ALTITUDE VALVE / ONE WAY FLOW (TANK FILL)

Provides automatic filling of elevated tanks or reservoirs. When the altitude control senses a drop in level below the predetermined set point, the valve opens to fill tank. When the level again reaches the set point, the valve will close. Discharge of the tank is by a separate line.



ALTITUDE VALVE / TWO WAY FLOW (TANK FILL & DISCHARGE)

Controls both the fill and discharge cycles of a tank or reservoir. When valve inlet (system) pressure falls below tank head pressure, the altitude valve opens to feed the system. When system pressure recovers above tank head, the tank begins to refill. When the high level set point is reached, the valve will close.



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VALVE OPERATION

Model 3331 One-way Flow

The 3331 is designed to only fill the tank. Tank head (pressure) is sensed under the diaphragm of the 3300 altitude pilot (2). When the tank head falls below the set point, the pilot shifts to vent water from diaphragm chamber of the main valve (1) to drain. This allows the valve to open and fill the tank. When the tank level again reaches the set point, the altitude pilot shifts to apply full inlet pressure to the diaphragm of the main valve, forcing the valve fully closed.

Model 159 Y-Strainer

5. Two Model 141-4 Ball Valves

6. Model 155 Visual Indicator

The 3331 consists of the following components, arranged as shown on the

- schematic diagram: 1. Model 65 Basic Valve Assembly
- Model 3300 Altitude Pilot 2.
- 3. Model 141-2 Needle Valve

Two-Way Altitude Valve

The 3333 is designed to drain and fill the tank. When the inlet (system) pressure falls below the set point of the altitude pilot (2), the pilot shifts to vent water from diaphragm chamber of the main valve (1) to drain. This allows the valve to open and let the tank feed the system. When system pressure recovers to a point higher than tank head, the tank will begin refilling. When the tank level again reaches the set point, the altitude pilot shifts to apply full inlet pressure to the diaphragm of the main valve, forcing the valve fully closed.

The 3333 consists of the following components, arranged as shown on the schematic diagram:1. Model 65 Basic Valve Assembly6. Model 126 Ejector2. Model 3300 Altitude Pilot7. Model 141-1 Check Valve

- Model 3600 Three-Way Auxiliary Pilot (10-24" only)
 Model 6401 Two-Way Auxiliary Pilot (10-24" only)
 Model 141-2 Needle Valve
- - Model 159 Y-Strainer 8.
 - Three Model 141-4 Ball Valves 9.
 - 10. Model 155 Visual Indicator



REVISED 05/04/17

3300 Altitude Pilot



Installation Requirements

The altitude valve is furnished fully factory assembled except for the tank sense line. In areas where freezing temperatures are possible, the valve should be located in a vault below the frost line. After the main valve is installed, the tank sense line must be connected at the altitude pilot. The proper installation of this sense line is critical to the efficient operation of the altitude valve. The following guidelines apply.

1. It is essential that the sense line be connected as close to the tank as possible in order to accurately sense the tank head, within 40 diameters of the tank wall or riser.

Minimum recommended size for the sense line is 1/2" OD

tubing or 3/8" pipe. 3. In order to prevent air accumulation, the sense line should slope slightly upwards from the valve to the tank.

The altitude valve vents its diaphragm chamber to atmos-phere, the volume varying according to valve size, as shown below. Provision should be made to drain off or otherwise dispose of this water.

1 ¼"	0.02 gal.	8"	1.0 gal.
1 1/3"	0.02 gal.	10"	2.5 gal.
2" 2 1/2" 3" 4"	0.05 gal.	12"	4.0 gal.
2 1/2"	0.06 gal.	14"	6.5 gal.
3"	0.1 gal.	16" 24"	9.6 ğal. 28.0 gal.
4"	0.2 ğal.	24"	28.0 gal.
6"	0 6 ŭal		Ũ

MODEL 3330 Altitude Control Valve Series

- Adjusting Screw 1.
- Spring

6

- 2. 3. Upper Diaphragm Chamber
- Lower Diaphragm Chamber 4.
- 5. Pilot Valve Body
- 6. To Bonnet
- To Supply 7. 8.
- To Atmosphere 9. Tank Pressure Sense Line

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3333 (10-24" diagram) 94 FLOW



5A

FLOW-



TANK SENSE



SIZING CONSIDERATIONS

For the most comprehensive procedure in sizing Series 3330 control valves, it is best to use our ValveMaster software or the guidelines shown here in conjunction with the Performance Charts in the Engineering Section of the OCV catalog.

With rare exceptions, altitude valves are line sized. This being said, the following criteria may be applied.

The valve flow rate may be verified from the equation:

$$Q = C_v \sqrt{dp}$$

where:

Q =flow rate, gallons per minuteCv =valve flow coefficient from chart, belowdp =available pressure dropTank Fill - (system pressure minus tank head in psi)Flow Out of Tank - (tank head in psi minus system pressure)

In no case should the flow velocity exceed 25 ft/sec (see chart). If a greater flow is required, use a larger valve.

In some cases, in may be necessary to limit the flow, particularly for flow into the tank. In such cases, consider using either a smaller valve or a line size valve with a pressure sustaining feature (Model 3331-3 or 3333-3).

	BASIC VALVE	FLOW CHARACTER	RISTICS
Valve Size	Globe Valves Cv	Angle Valves Cv	Flow for 25ft/sec GPM
1-1/4	23	30	115
1-1/2	27	35	115
2"	47	65	260
2-1/2"	68	87	370
3"	120	160	570
4"	200	270	1,000
6"	450	550	2,250
8"	760	1,000	3,900
10"	1,250	1,600	6,150
12"	1,940	2,400	8,700
14"	2,200		10,500
16"	2,850	4,000	13,800
24"	6,900		31,300

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VALVE SELECTION

By combining various control pilots, multiple valve functions can be performed on a single Series 3330 Altitude Control Valve. To find the combination function valve, select the desired features and then the model number.

This chart shows only a sample of those most often specified valves. Consult the factory for specific data on the model you selected.

	155 ⁵⁵	1.55		N.2 33		1.4 /3 ²³		1.1ª _333		124 333	(3 ⁴ /3 ² /3 ²		3 / 53 ⁵⁵		2 12 13 25 1		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1			122 / 122 /	(1 ²)	ත් පුර් Definition
One-Way Flow	x	x	x	x	x	x	x	x	x	x	x											Fills elevated tank or resevoir
Two-Way Flow												х	х	х	x	x	x	x	x	x	x	Fills elevated tank and opens for return flow
Pressu <i>r</i> e Sustaining				x		х		х		x					x		x		x		х	Maintains minimum valve inlet pressure
Lift Check											x											Internal assembly closes valve on pressure reversal
Solenoid- Energized to Enable		х				х	x						x				x	x				Solenoid energized to allow valve to open
Solenoid- Energized to Close			х					х	х					х					x	x		Solenoid energized to close valve
Delayed Drawdown					x		x		x	x												Valve opening delayed until tank level reaches set point
Delayed Opening For Retum Flow																x		x		x	х	Valve opening for return flow is delayed

ABOUT YOUR VALVE

OCV Control Valves was founded more than 60 years ago with a vision and commitment to guality and reliability. From modest beginnings, the company has grown to be a global leader just a half century later. In fact, OCV Valves can be found in some capacity in nearly every country around the world from fire protection systems in Malaysia to aircraft fueling systems in Africa and from oil refineries in Russia to water supply systems in the USA and Canada. You will also find our valves in irrigation systems in Europe, South America and the Middle East.

The original foundation on which the company was built allows our team of professionals to not only provide the service required to be a worldwide supplier, but more importantly the opportunity to afford the personal touch necessary to be each of our customers' best partner. Simply stated, we take pride in all that we do.

Committed to the work they do, our employees average over 15 years of service. This wealth of knowledge allows us to provide quality engineering, expert support, exacting control and the know-how to create valves known for their long life.

Being ISO 9001 certified means we are committed to a quality assurance program. Our policy is to supply each customer with consistent quality products and ensure that the process is right every time. Our valves meet and exceed industry standards around the world. Including approvals by:

Check individual models for availability.



All valves are not created equal. OCV Control Valves proves that day in and day out. We stand behind our valves and are ready to serve your needs.

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SPECIFICATIONS

NOTE: ALL waterworks valves meet the Low-Lead laws of the United States, including individual state laws, as of March 2014.



	ANSI 150# Flat 250 psi ANSI B1.20. SS STEEL SS STEEL DUCTILE DUCTILE DUC	IRON (epoxy TILE IRON (e IL. (8″ & SMA	y coated) poxy coa) / OPTION	316.5 300# Raised 740 psi nd Working Pi	ANS 150# Raised 285 psi ressure: 300 psi	GRADES I B16.5 300# Raised 740 psi		
ressure Working Pressure:	150# Flat 250 psi ANSI B1.20. SS STEEL SS STEEL DUCTILE DUC STN. S	300# Raised 640 psi 1 640 psi 1 640 psi 1 640 psi 1 1 640 psi 1 1 640 psi 1 1 640 psi 1 1 640 psi 1 640 psi	y coated) poxy coa	150# Raised 285 psi Grooved En) / OPTION	300# Raised 740 psi nd Working Pi	150# Raised 285 psi ressure: 300 psi	300# Raised 740 psi		
ressure Working Pressure: STAINLE	150# Flat 250 psi ANSI B1.20. SS STEEL SS STEEL DUCTILE DUC STN. S	300# Raised 640 psi 1 640 psi 1 640 psi 1 640 psi 1 1 640 psi 1 1 640 psi 1 1 640 psi 1 1 640 psi 1 640 psi	y coated) poxy coa	150# Raised 285 psi Grooved En) / OPTION	300# Raised 740 psi nd Working Pi	150# Raised 285 psi ressure: 300 psi	300# Raised 740 psi		
Working Pressure: STAINLE	Flat 250 psi ANSI B1.20. SS STEEL SS STEEL DUCTILE DUC STN. S	Raised 640 psi 1 640 psi I RON (epox) TILE IRON (e ILE IRON (e	y coated) poxy coa	Raised 285 psi Grooved E	Raised 740 psi nd Working Pi AL - STN. STL.	Raised 285 psi ressure: 300 psi	Raised 740 psi		
Working Pressure: STAINLE	250 psi ANSI B1.20. SS STEEL SS STEEL DUCTILE DUC STN. S	640 psi 1 640 psi E IRON (epoxy TILE IRON (e IL. (8″ & SMA	y coated) poxy coa	285 psi Grooved E) / OPTION	740 psi nd Working Pi AL - STN. STL.	285 psi ressure: 300 psi	740 psi		
Working Pressure: STAINLE	ANSI B1.20. SS STEEL SS STEEL DUCTILE DUC STN. S	I 640 psi IRON (epox) TILE IRON (e IL. (8″ & SMA	y coated) poxy coa	Grooved E	nd Working Pi AL - STN. STL.	ressure: 300 psi	· ·		
STAINLE	SS STEEL SS STEEL DUCTILE DUC STN. S	IRON (epoxy TILE IRON (e IL. (8″ & SMA	y coated) poxy coa) / OPTION	AL - STN. STL.				
	SS STEEL DUCTILE DUC STN. S	TILE IRON (e TL. (8″ & SM/	ροχγ τοα			STAINI	.ESS STEEL		
	SS STEEL DUCTILE DUC STN. S	TILE IRON (e TL. (8″ & SM/	ροχγ τοα			STAINI	.ESS STEEL		
STAINLE	DUCTILE DUC STN. ST	TILE IRON (e TL. (8″ & SM/	ροχγ τοα			STAIN	.ESS STEEL		
	DUC STN. S	TILE IRON (e TL. (8″ & SM/	ροχγ τοα			STAINL	ESS STEEL		
	STN. ST	FL. (8″ & SMA	poxy coa ALLER /	nted) /10″ 9					
	DUCTILE	IRON (epoxy		DUCTILE IRON (epoxy coated) (10" & LARGER) STN. STL. (8" & SMALLER / OPTIONAL - ALL SIZES)					
			DUCTILE IRON (epoxy coated) / OPTIONAL - STN. STL.						
		LOW-LEAD BRONZE OR STN. STL.							
		BRONZE O	R TEFLO	N®		TEF	LON®		
	NOT APPLIC	ABLE FOR LOV	V-LEAD B	ROZE SEAT	Rings / Tefloi	n for for stn. s	TL. SEAT RING		
S (Rubber)									
/O-Rings			EPDM						
ITE [*] atures approach low or high	n temperature allo	owance. 32	2°F to 23	30°F					
		NSF-6	1 EPOXY C	OATING					
IOIDS									
		BRASS / OP	TIONAL	- STAINLES	SS STEEL				
		WATER T	IGHT, NE	EMA 1, 3, 4	, & 4X				
60HZ - 24, 120, 240	, 480 VOLTS	AC, 50HZ	: - In 110	VOLT MU	LTIPLES D	C, 6 12, 24, 240 \	/OLTS		
ENERGIZE	TO OPEN (NO	ORMALLY CLO	DSED)	DE-ENERG		•	•		
					TE	EFLON® is a registered t	rademark of DuP		
LOW-LEAD BRONZE	STN	I. STL.		BONNET	柳		DIAPHRAGM PLATE		
STAINLESS STEEL	STAINL	ESS STEEL					ALIGNMENT		
							DIAPHRAGM		
COPPER	STAINL	ESS STEEL					SPOOL		
LOW-LEAD BRASS	STAINL	ESS STEEL					- SEAT DISC		
			_	LOWER STEM			SEAT RING (TRIM)		
langed Sizes				GUIDE		-	BODY		
-	<u> </u>	8" 10"	12"	14" 14"	18"* 20"*	74 "			
	ENERGIZE LOW-LEAD BRONZE STAINLESS STEEL COPPER LOW-LEAD BRASS Flanged Sizes 1.5" 2" 2.5" 3 Omm 50mm 65mm 80r Flanged Sizes	60HZ - 24, 120, 240, 480 VOLTS ENERGIZE TO OPEN (NO LOW-LEAD BRONZE STM STAINLESS STEEL STAINL COPPER STAINL LOW-LEAD BRASS STAINL Flanged Sizes 1.5" 2" 2.5" 3" 4" 6" 0mm 50mm 65mm 80mm 100mm 150m	BRASS / OP WATER TI 60HZ - 24, 120, 240, 480 VOLTS AC, 50HZ 60HZ - 24, 120, 240, 480 VOLTS AC, 50HZ ENERGIZE TO OPEN (NORMALLY CLO LOW-LEAD BRONZE STN. STL. STAINLESS STEEL COPPER STAINLESS STEEL LOW-LEAD BRASS STAINLESS STEEL Flanged Sizes 1.5" 2" 2.5" 3" 4" 6" 8" 10" Gomm 65mm 80mm 100mm 150mm 200mm 250m	BRASS / OPTIONAL WATER TIGHT, NE 60HZ - 24, 120, 240, 480 VOLTS AC, 50HZ - In 110 ENERGIZE TO OPEN (NORMALLY CLOSED) LOW-LEAD BRONZE STN. STL. STAINLESS STEEL STAINLESS STEEL LOW-LEAD BRASS STAINLESS STEEL COPPER STAINLESS STEEL LOW-LEAD BRASS STAINLESS STEEL COPPER STAINLESS STEEL COW-LEAD BRASS STAINLESS STEEL STAINLESS STEEL STAINLESS STEEL I.5" 2" 2.5" 1.5" 2" 2.5" 3" 4" 6" 8" 10" 12" 0mm 50mm 65mm 80mm 100mm 12"	BRASS / OPTIONAL - STAINLES WATER TIGHT, NEMA 1, 3, 4 60HZ - 24, 120, 240, 480 VOLTS AC, 50HZ - In 110 VOLT MU ENERGIZE TO OPEN (NORMALLY CLOSED) DE-ENERG LOW-LEAD BRONZE STN. STL. STAINLESS STEEL STAINLESS STEEL LOW-LEAD BRASS STAINLESS STEEL LOW-LEAD BRASS STAINLESS STEEL STAINLESS STEEL STAINLESS STEEL STAINLESS STEEL STAINLESS STEEL STAINLESS STEEL STAINLESS STEEL STAINLESS STEEL STEM COUPER STAINLESS STEEL STEM STEM STEM STEM STEM STEM STEM STEM	IOIDS BRASS / OPTIONAL - STAINLESS STEEL WATER TIGHT, NEMA 1, 3, 4, & 4X 60HZ - 24, 120, 240, 480 VOLTS AC, 50HZ - In 110 VOLT MULTIPLES D ENERGIZE TO OPEN (NORMALLY CLOSED) DE-ENERGIZE TO OPEN LOW-LEAD BRONZE STN. STL. SPRING SPRING STAINLESS STEEL STAINLESS STEEL STAINLESS STEEL LOW-LEAD BRASS STAINLESS STEEL STAINLESS STEEL Flanged Sizes STEM 10" 12" 14" 16" 18"* 20"* CONSULT F Stain 200mm 250mm 300mm 350mm 400mm 450mm 500mm	IOIDS BRASS / OPTIONAL - STAINLESS STEEL WATER TIGHT, NEMA 1, 3, 4, & 4X 60HZ - 24, 120, 240, 480 VOLTS AC, 50HZ - In 110 VOLT MULTIPLES DC, 6 12, 24, 240 V ENERGIZE TO OPEN (NORMALLY CLOSED) DE-ENERGIZE STAINLESS STEEL STAINLESS STEEL STAINLESS STEEL 1.5" 2" 2.5" 3" 4" 6"		





(Globe	e/Ang	le Scr	ewed	Sizes	a shine to
	1.25"	1.5"	2"	2.5"	3"	Strates
l	32mm	40mm	50mm	65mm	80mm	100 - 2

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	and the second se	

Globe	e/Ang	le Gro	ooved	Sizes	5
1.5"	2"	2.5"	3"	4''	6″*
32mm	50mm	65mm	80mm	100mm	150mm*
				*GLO	BE ONLY

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DIMENSIONS

					U.S. 1	DIMENSION	IS - INCHE	S					
DIM	END CONN.	1 1/4-1 1/2	2	2 1/2	3	4	6	8	10	12	14	16	24
	SCREWED	8 3/4	9 7/8	10 1/2	13		(142) (142)						
A	GROOVED	8 3/4	9 7/8	10 1/2	13	15 1/4	20			12		1	
	150# FLGD	8 1/2	9 3/8	10 1/2	12	15	17 3/4	25 3/8	29 3/4	34	39	40 3/8	62
	300# FLGD	8 3/4	9 7/8	11 1/8	12 3/4	15 5/8	18 5/8	26 3/8	31 1/8	35 1/2	40 1/2	42	63 3/4
	SCREWED	1 7/16	1 11/16	1 7/8	2 1/4							() <u></u>)	
В	GROOVED	1*	1 3/16	1 7/16	1 3/4	2 1/4	3 5/16						
	150# FLGD	2 5/16-2 1/2	3	3 1/2	3 3/4	4 1/2	5 1/2	6 3/4	8	9 1/2	10 5/8	11 3/4	16
	300# FLGD	2 5/8-3 1/16	3 1/4	3 3/4	4 1/8	5	6 1/4	7 1/2	8 3/4	10 1/4	11 1/2	12 3/4	18
	SCREWED	4 3/8	4 3/4	6	6 1/2								
С	GROOVED	4 3/8*	4 3/4	6	6 1/2	7 5/8							
ANGLE	150# FLGD	4 1/4	4 3/4	6	6	7 1/2	10	12 11/16	14 7/8	17		20 13/16	
	300# FLGD	4 3/8	5	6 3/8	6 3/8	7 13/16	10 1/2	13 3/16	15 9/16	17 3/4	-	21 5/8	
í	SCREWED	3 1/8	3 7/8	4	4 1/2								
D	GROOVED	3 1/8*	3 7/8	4	4 1/2	5 5/8							
ANGLE	150# FLGD	3	3 7/8	4	4	5 1/2	6	8	11 3/8	11		15 11/16	
	300# FLGD	3 1/8	4 1/8	4 3/8	4 3/8	5 13/16	6 1/2	8 1/2	12 1/16	11 3/4		 40 3/8 42 11 3/4 12 3/4 20 13/16 21 5/8 	
E	ALL	6	6	7	6 1/2	8	10	11 7/8	15 3/8	17	18	19	27
F	ALL	3 7/8	3 7/8	3 7/8	3 7/8	3 7/8	3 7/8	6 3/8	6 3/8	6 3/8	6 3/8	6 3/8	8
G	ALL	6	6 3/4	7 11/16	8 3/4	11 3/4	14	21	24 1/2	28	31 1/4	34 1/2	52
н	ALL	10	11	11	11	12	13	14	17	18	20	20	28 1/2
*GROOV	ED END NOT	AVAILABLE IN	1 1/4"										

		C		0	METR	IC DIMENS	SIONS - M.I	И.		· · · · · · · · · · · · · · · · · · ·		52	
DIM	END CONN.	DN32-DN40	DN50	DN65	DN80	DN100	DN150	DN200	DN250	DN300	DN350	DN400	DN600
	SCREWED	222	251	267	330		144	-	344				-
A	GROOVED	222	251	267	330	387	508		1924			<u></u>	
	150# FLGD	216	238	267	305	381	451	645	756	864	991	1026	1575
	300# FLGD	222	251	283	324	397	473	670	791	902	1029	1067	1619
	SCREWED	37	43	48	57								-
В	GROOVED	25*	30	37	44	57	84						
	150# FLGD	59-64	76	89	95	114	140	171	203	241	270	298	406
	300# FLGD	67-78	83	95	105	127	159	191	222	260	292	 1026 1067 	457
	SCREWED	111	121	152	165								
С	GROOVED	111*	121	152	165	194							
ANGLE	150# FLGD	108	121	152	152	191	254	322	378	432		529	
	300# FLGD	111	127	162	162	198	267	335	395	451		549	
	SCREWED	79	98	102	114								
D	GROOVED	79*	98	102	114	143							
ANGLE	150# FLGD	76	98	102	102	140	152	203	289	279		398	
	300# FLGD	79	105	111	111	148	165	216	306	298		 1026 1067 298 324 529 549 529 549 398 419 483 162 876	
E	ALL	152	152	178	165	203	254	302	391	432	457	483	686
F	ALL	98	98	98	98	98	98	162	162	162	162	162	203
G	ALL	152	171	195	222	298	356	533	622	711	794	876	1321
н	ALL	254	279	279	279	305	330	356	432	457	508	508	724

*GROOVED END NOT AVAILABLE IN DN32

For maximum efficiency, the OCV control valve should be mounted in a piping system so that the valve bonnet (cover) is in the top position. Other positions are acceptable but may not allow the valve to function to its fullest and safest potential. In particular, please consult the factory before installing 8" and larger valves, or any valves with a limit switch, in positions other than described. Space should be taken into consideration when mounting valves and their pilot systems.

A routine inspection & maintenance program should be established and conducted yearly by a qualified technician. Consult our factory @ **1-888-628-8258** for parts and service.

How to order your valve

When Ordering please provide: Series Number - Valve size - Globe or Angle -Pressure Class - Screwed, Flanged, Grooved -Trim Material - Adjustment Range - Pilot Options - Special needs / or installation requirements.







Represented by:

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