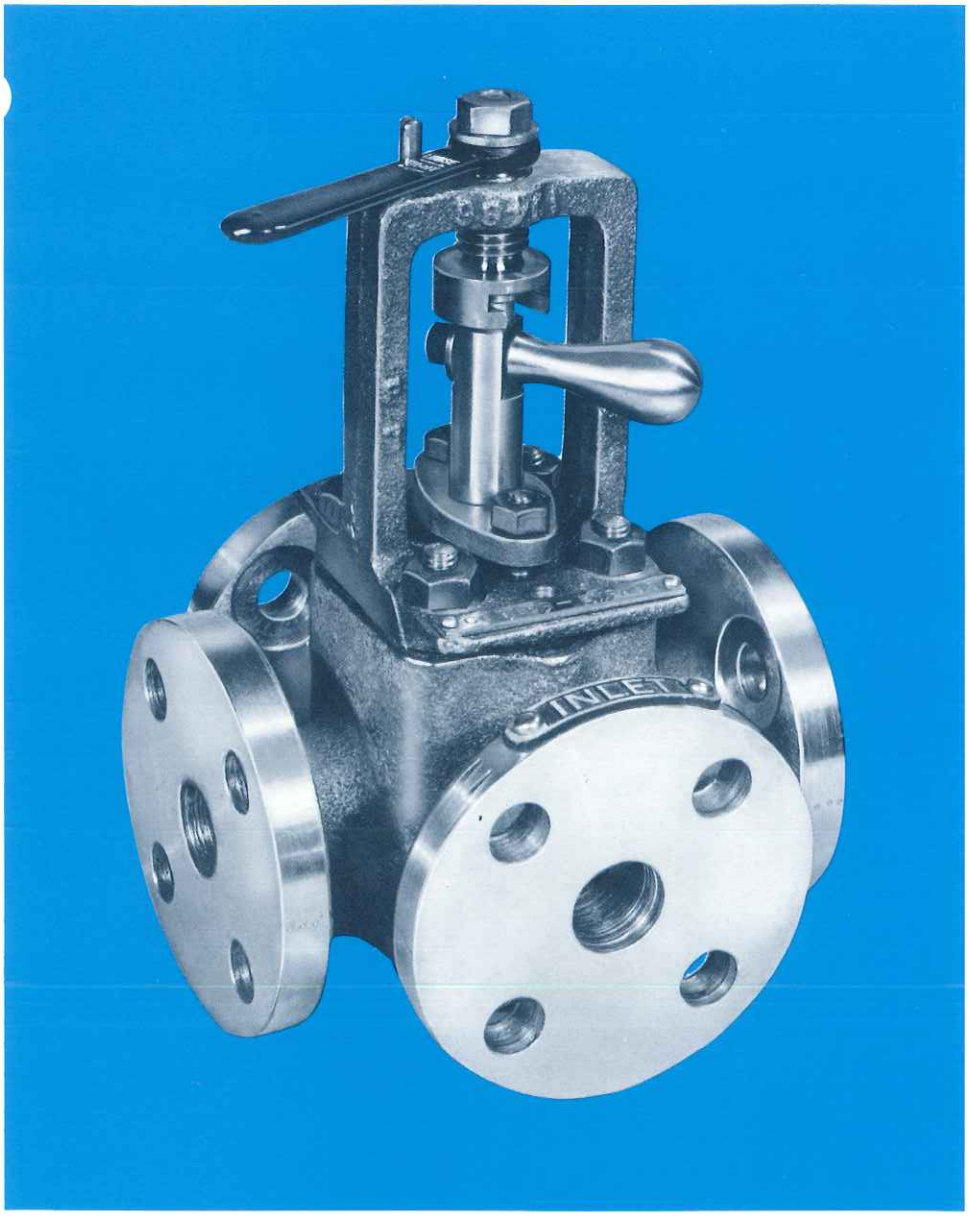
Tate Andale Model 401V Fourway Valve

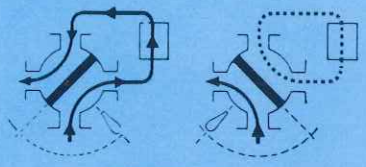


Description

The Tate Andale Model 401 Fourway Valve is a complete self-contained non-lubricated valve for installation in a service line piped to convert and valve the service line to two parallel passages and operated to direct flow through either. This valve can also be piped to convert the service line to a single external return circuit and operated to change flow to either direction through the circuit. This valve is used where prevention of flow interruption is essential, for protection of equipment and where contamination by the induction of a foreign lubricant film for plug suspension is unacceptable.

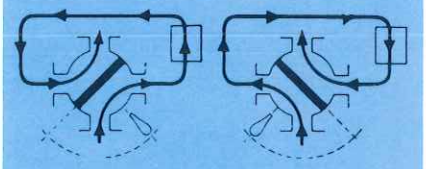
Piping and Operating Diagrams

Piped with Valve's final outlet 90° from its initial "INLET": converting service line to two parallel passages.



Operated to direct flow through either circuit

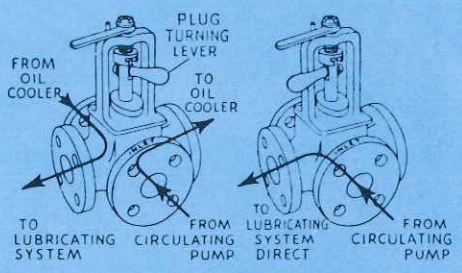
Piped with Valve's final outlet in line with its initial "INLET": converting service line to a single external circuit.



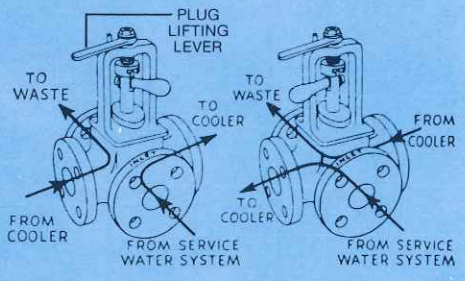
Operated to reverse circuit's flow direction.

TYPICAL APPLICATIONS

Installations in the oil and cooling water service lines of a lubricating oil cooling and distribution system.



Operated to by-pass the cooler's oil circuit for inspection or cleaning.



Operated to backflush debris from the cooler's water circuit by reversing flow.

Typical Valve Specification

The valve shall be a Type 401V Fourway Valve as manufactured by Tate Andale, Inc. and suitable for a working pressure of 125/150 psig (cast iron/cast steel) at 200° F.

The valve body shall be cast iron or cast steel construction with _____" — 125/150 #ANSI flanged connections, cast iron or cast steel valve plug, steel bonnet, bronze gland and an aluminum bronze jack screw, shall be equipped with a lifting mechanism to minimize wear and allow ease of turning and the plug shall be of conical design to assure maximum plug seal on the closed circuit.

Standard Materials

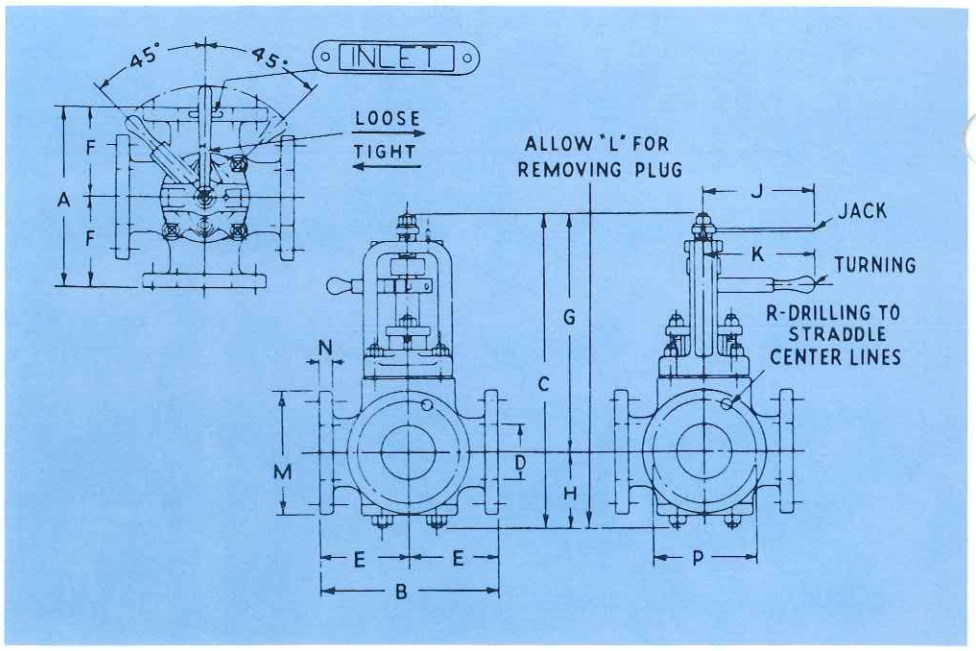
Body & Plug ..... Cast Iron, Cast Steel
Bonnet ..... Steel
Gland ..... Bronze
Jack Screw ..... Aluminum Bronze

Optional Features

- Cast bronze body and plug
- Higher design pressures
- Butt weld connections

Standard Features

- Valve plug and stem are cast in one piece
- Plug rotation is limited to 90° with positive stops
- Positive valve position indication
- Plug lifting device to minimize wear and allow ease of turning
- Conical plug design to assure maximum plug seal on the closed circuit.



Model 401V Dimensions 125 PSIG (Cast Iron)

*Weight in pounds

SIZE	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	WT.*
3"	11	11	18½	3	5½	5½	13¾	4¾	6½	6	27	7½	¾	6	4-¾	120
4"	13	13	22¼	4	6½	6½	16 11/16	5 9/16	8	8	33	9	15/16	7½	8-¾	220
5"	15	15	26⅝	5	7½	7½	20⅝	6	10½	12	39	10	15/16	8½	8-⅞	300
6"	16	16	29¼	6	8	8	21¾	7½	10½	12	43	11	1	9½	8-⅞	400
8"	18	18	34	8	9	9	24½	9½	14	17	52	13½	1⅛	11¾	8-⅞	575

Model 401V Dimensions 150 PSIG (Cast Bronze)

SIZE	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	WT.*
½" P.T.	5	5	8¼		2½	2½	6¼	2	3⅛	2	10½	Screwed				12
¾" P.T.	5	5	9⅞		2½	2½	7⅜	2½	3⅝	3⅝	14	Screwed				20
1" P.T.	6	6	12⅝		3	3	10	2⅝	4	4	18	Screwed				28
1¼" P.T.	6	6	12⅝		3	3	10	2⅝	4	4	18	Screwed				32
1½" P.T.	7	7	14		3½	3½	10¾	3¼	5	4	20	Screwed				40
2"	9	9	14	2	4½	4½	10¾	3¼	5	4	20	6	⅝	4¾	4-¾	60
2½"	10	10	18½	2½	5	5	13¾	4¾	6½	6	27	7	11/16	5½	4-¾	110
3"	11	11	18½	3	5½	5½	13¾	4¾	6½	6	27	7½	¾	6	4-¾	120
4"	13	13	22¼	4	6½	6½	16 11/16	9/16	8	8	33	9	15/16	7½	8-¾	220
5"	15	15	26⅝	5	7½	7½	20⅝	6	10½	12	39	10	15/16	8½	8-⅞	300
6"	16	16	29¼	6	8	8	21¾	7½	10½	12	43	11	1	9½	8-⅞	400
8"	18	18	34	8	9	9	24½	9½	14	17	52	13½	1⅛	11¾	8-⅞	575

Model 401V Dimensions 150 PSIG (Cast Steel)

SIZE	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	WT.*
½"	5	5	8¼	⅝	2½	2½	6¼	2	3⅛	2	10½	3½	7/16	2⅜	4-⅝	16
¾"	6½	6½	9⅞	¾	3¼	3¼	7⅜	2½	3⅝	3⅝	14	3⅞	½	2¾	4-⅝	25
1"	7	7	12⅝	1	3½	3½	10	2⅝	4	4	18	4¼	7/16	3⅛	4-⅝	35
1¼"	7½	7½	12⅝	1¼	3¾	3¾	10	2⅝	4	4	18	4⅝	½	3½	4-⅝	40
1½"	8	8	14	1½	4	4	10¾	3¼	5	4	20	5	9/16	3⅞	4-⅝	50
2"	9	9	14	2	4½	4½	10¾	3¼	5	4	20	6	⅝	4¾	4-¾	60
2½"	10	10	18½	2½	5	5	13¾	4¾	6½	6	27	7	11/16	5½	4-¾	110
3"	11	11	18½	3	5½	5½	13¾	4¾	6½	6	27	7½	¾	6	4-¾	120
4"	13	13	22¼	4	6½	6½	16 11/16	5 9/16	8	8	33	9	15/16	7½	8-¾	220
5"	15	15	26⅝	5	7½	7½	20⅝	6	10½	12	39	10	15/16	8½	8-⅞	300
6"	16	16	29¼	6	8	8	21¾	7½	10½	12	43	11	1	9½	8-⅞	400
8"	18	18	34	8	9	9	24½	9½	14	17	52	13½	1⅛	11¾	8-⅞	575

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