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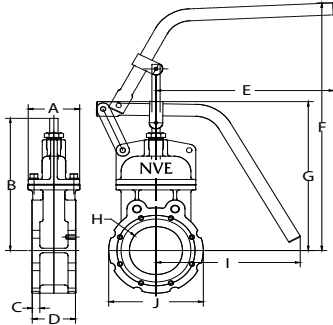
NVE Valves • Manual Actuation / Closing

Piston Gate Valves - Manually Actuated

Features: Steel or Stainless Steel Body; Stainless Steel Stem, Seat, Gate and Guide are Standard; Viton Seals Standard; Viton O-Ring Seal on Seat; Other O-Ring Materials Available; Completely Rebuildable and Self-Cleaning; accepts TTMA and ANSI Flanges. MAWP 100 PSI; Burst Pressure greater than 400 PSI. Dual Gate version available for applications requiring horizontal mounting or with high contents of solids.

Dimensions:

4" Piston Gate Valve, Stainless Steel



NVE PISTON GATE VALVE - DIMENSIONS

DESCRIPTION	A	B	C	D	E	F	G	H	I	J
4" PISTON GATE	3.87	11.04	.562	3.25	13.41	20.67	12.43	4.00	10.86	7.125
6" PISTON GATE	5.25	14.60	.75	4.00	13.57	29.61	17.84	6.00	10.69	9.00

NVE PISTON GATE VALVES

DESCRIPTION	PART NUMBER
4" PISTON GATE VALVE - CARBON STEEL	180-4C
4" PISTON GATE VALVE - STAINLESS STEEL	180-4S
6" PISTON GATE VALVE - CARBON STEEL	180-6C
6" PISTON GATE VALVE - STAINLESS STEEL	180-6S

NVE PARTS GATE VALVE REBUILD KITS

DESCRIPTION	PART NUMBER
REBUILD KIT - 4" PISTON GATE VALVE	190-000-4
REBUILD KIT - 6" PISTON GATE VALVE	190-000-6

NVE Valves and Replacement Valve Parts

4" and 6" NVE Dual Gate Valve Parts Diagram

When ordering replacement parts
please specify whether the valve is
4" or 6" and if it is Carbon or Stainless.

Part Number Scheme

= 4 or 6

= 4 (4 inch port)

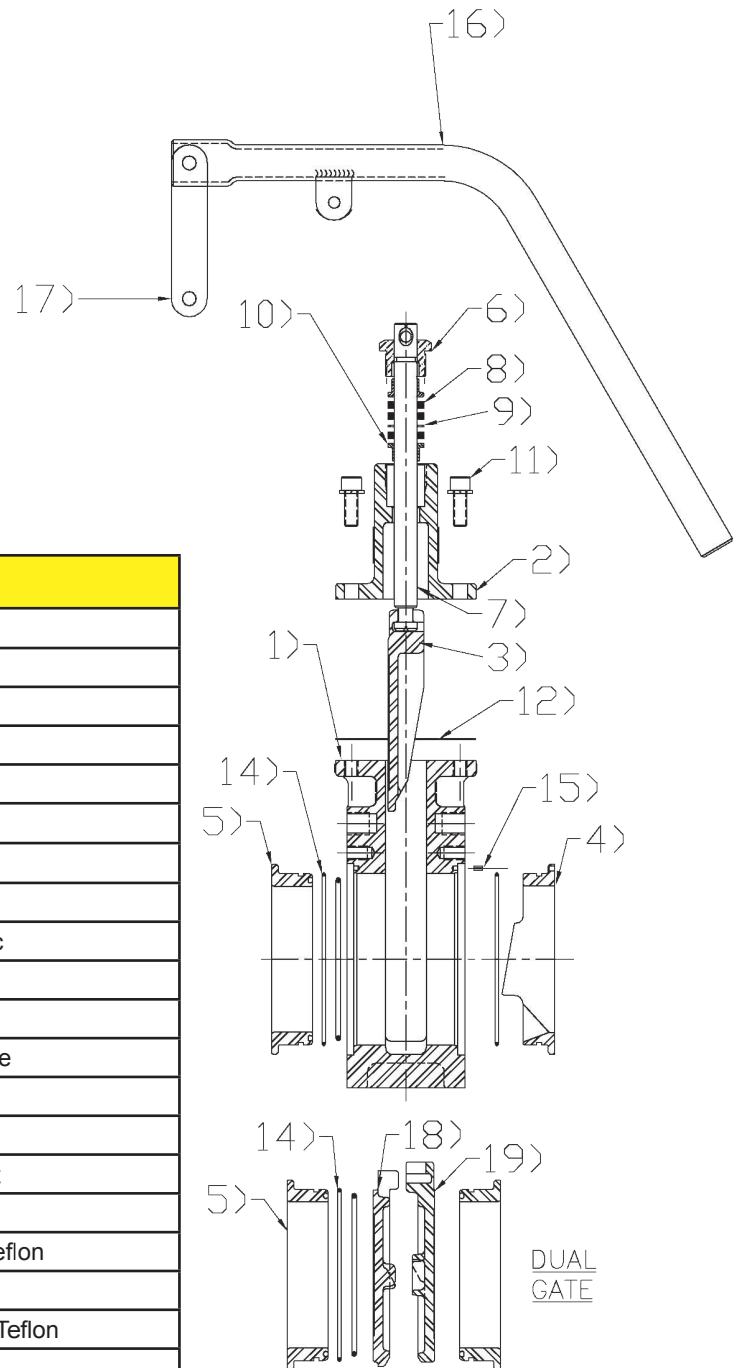
= 6 (6 inch port)

* = C or S

= C (Carbon Steel)

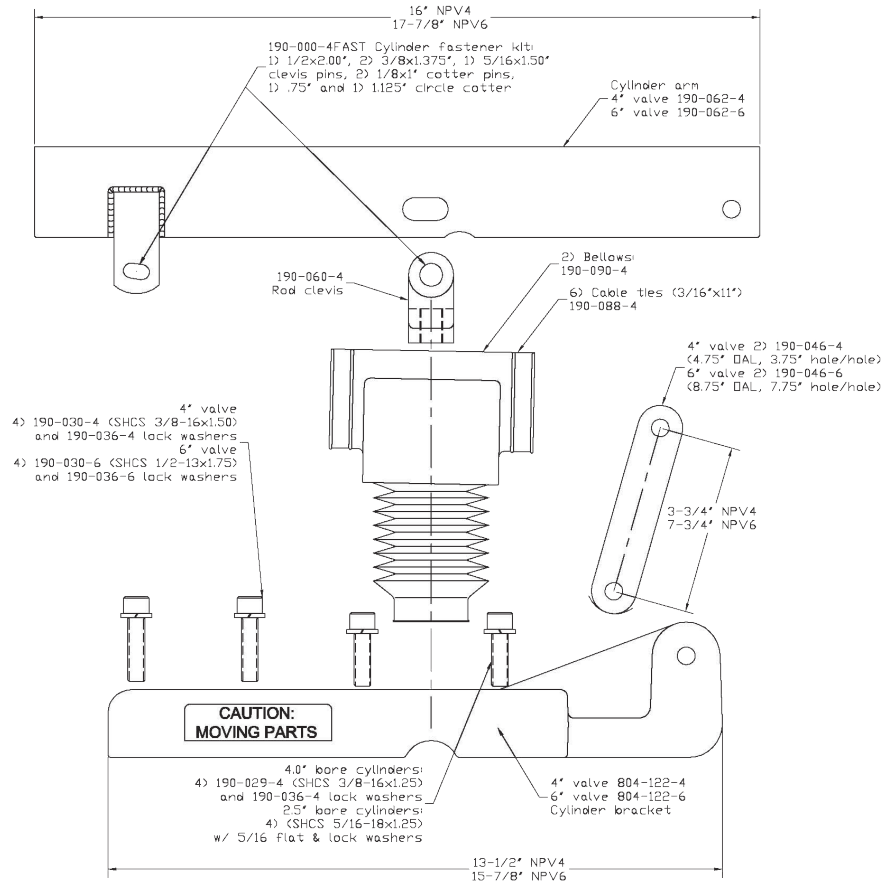
= S (Stainless Steel)

ITEM	PART NUMBER	DESCRIPTION
1	190-002-#*	Valve Body
2	190-004-#*	Valve Bonnet
3	190-006-#	Valve Gate
4	190-010-#	Valve Guide
5	190-012-#	Valve Seat
6	190-014-4	Valve Packing Brass
	190-014-4S	Valve Packing SS
7	190-016-#	Valve Stem
8	190-018-4	Valve Packing Acrylic
	190-018-4S	Valve Packing Teflon
9	190-020-4	Valve Washer Viton
10	190-022-4	Valve Bushing Bronze
	190-022-4S	Valve Bushing Teflon
11	190-028-#	Valve Bolt w/ LW
12	190-038-#	Valve Bonnet Gasket
13	190-040-#	Valve Seat O-Ring
	190-040-#T	Valve Seat O-Ring Teflon
14	190-042-#	Valve Guide O-Ring
	190-042-#T	Valve Guide O-Ring Teflon
15	190-044-4	Valve Roll Pin
16	CALL NVE	Valve Handle Assm. (Handle & Bars)
17	CALL NVE	Valve Handle Fastener Set
18	190-008-#B	Valve Floating Gate
19	190-008-#A	Valve Fixed Gate



VALVES

NVE Valves with Actuators • Cylinder Bracket Assembly



CYLINDER BRACKET ASSEMBLIES

DESCRIPTION	PART NUMBER
LOCK WASHER, 4"	190-036-4
LOCK WASHER, 6"	190-036-6
VALVE HANDLE BARS, 4"	190-046-4
VALVE HANDLE BARS, 6"	190-046-6
CYLINDER BRACKET, 4"	804-122-4
CYLINDER BRACKET, 6"	804-122-6
CYLINDER ARM, 4"	190-062-4
CYLINDER ARM, 6"	190-062-6
CYLINDER ROD CLEVIS	190-060-4
HHCS 3/8-16 UNC X 1 1/2" LG	190-030-4
HHCS 1/2-13 UNC X 1 3/4" LG	190-030-6
HHCS 3/8-16 UNC X 1 1/4" LG	190-029-4
BOOT	190-090-4
CABLE TIES	190-088-4

VALVES

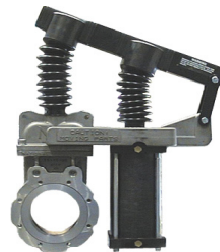
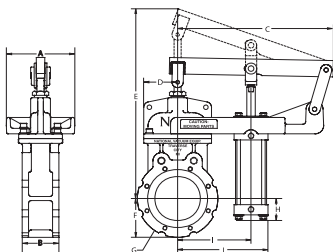
NVE Valves with Actuators • 2 Way Pneumatic or Hydraulic

Valve Features: Steel or Stainless Steel Body; Stainless Steel Stem, Seat, Gate and Guide are Standard; Viton Seals Standard; Viton O-Ring Seal on Seat; Other O-Ring Materials Available; Completely Rebuildable and Self-Cleaning; accepts TTMA and ANSI Flanges. MAWP 100 PSI; Burst Pressure greater than 400 PSI. Dual Gate version available for applications requiring horizontal mounting or with high contents of solids.

Actuator: Actuator Assembly features Stainless Steel Bracket and Fasteners; Powder Coat Painted Parts; Self-Lubricating Cylinder; and Replaceable Seals. Maximum Cylinder Operating Pressure 500 PSI.

Dimensions:

4" Piston Gate Valve



NVE 2-WAY VALVE - DIMENSIONS

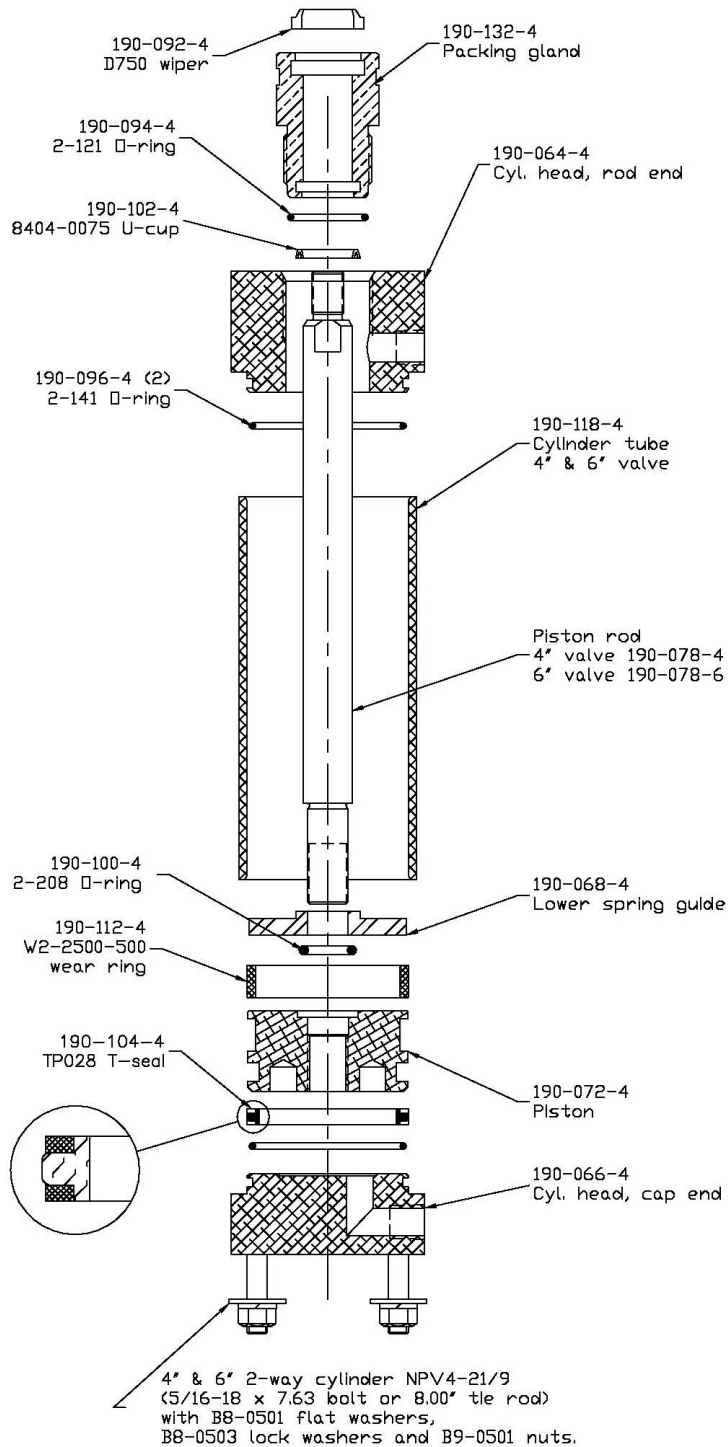
DESCRIPTION	A	B	C	D	E	F	G	H	I	J
4" PNEUMATIC - 2 WAY CYL.	6.05	3.25	13.79	3.00	17.40	3.56	7.13	2.00	6.50	8.00
6" PNEUMATIC - 2 WAY CYL.	6.30	4.00	15.67	4.50	23.33	4.50	9.00	0.06	7.75	9.25

NVE PISTON GATE VALVES W/ 2-WAY PNEUMATIC OR HYDRAULIC CYLINDER

DESCRIPTION	PART NUMBER
4" NVE VALVE - CARBON STEEL - 2 WAY CYLINDER	180-4C3
4" NVE VALVE - STAINLESS STEEL - 2 WAY CYLINDER	180-4S3
6" NVE VALVE - CARBON STEEL - 2 WAY CYLINDER	180-6C3
6" NVE VALVE - STAINLESS STEEL - 2 WAY CYLINDER	180-6S3

NVE Valves with Actuators • Hydraulic/Pneumatic 2-Way

DESCRIPTION	PART NUMBER
CYLINDER ASSEMBLY - 4" NPV, 2 WAY HYDRAULIC	190-116
CYLINDER ASSEMBLY - 6" NPV, 2 WAY HYDRAULIC	190-116-6



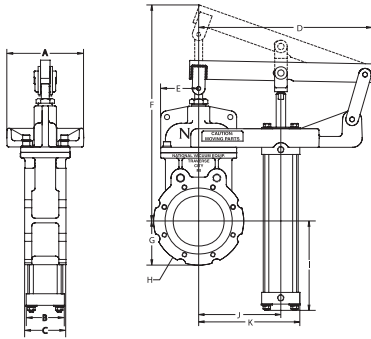
NVE Valves with Actuators • Hydraulic Spring Closed

Piston Gate Valves with Spring Close Hydraulic Cylinder

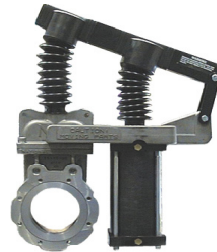
Valve Features: Steel or Stainless Steel Body; Stainless Steel Stem, Seat, Gate and Guide are Standard; Viton Seals Standard; Viton O-Ring Seal on Seat; Other O-Ring Materials Available; Completely Rebuildable and Self-Cleaning; accepts TTMA and ANSI Flanges. MAWP 100 PSI; Burst Pressure greater than 400 PSI. Dual Gate version available for applications requiring horizontal mounting or with high contents of solids.

Actuator: Actuator Assembly features Stainless Steel Bracket and Fasteners; Powder Coat Painted Parts; Replaceable Seals; and a Million-Cycle Spring. Maximum Cylinder Operating Pressure 500 PSI.

Dimensions:



4" Piston Gate Valve



NVE 2-WAY VALVE - DIMENSIONS

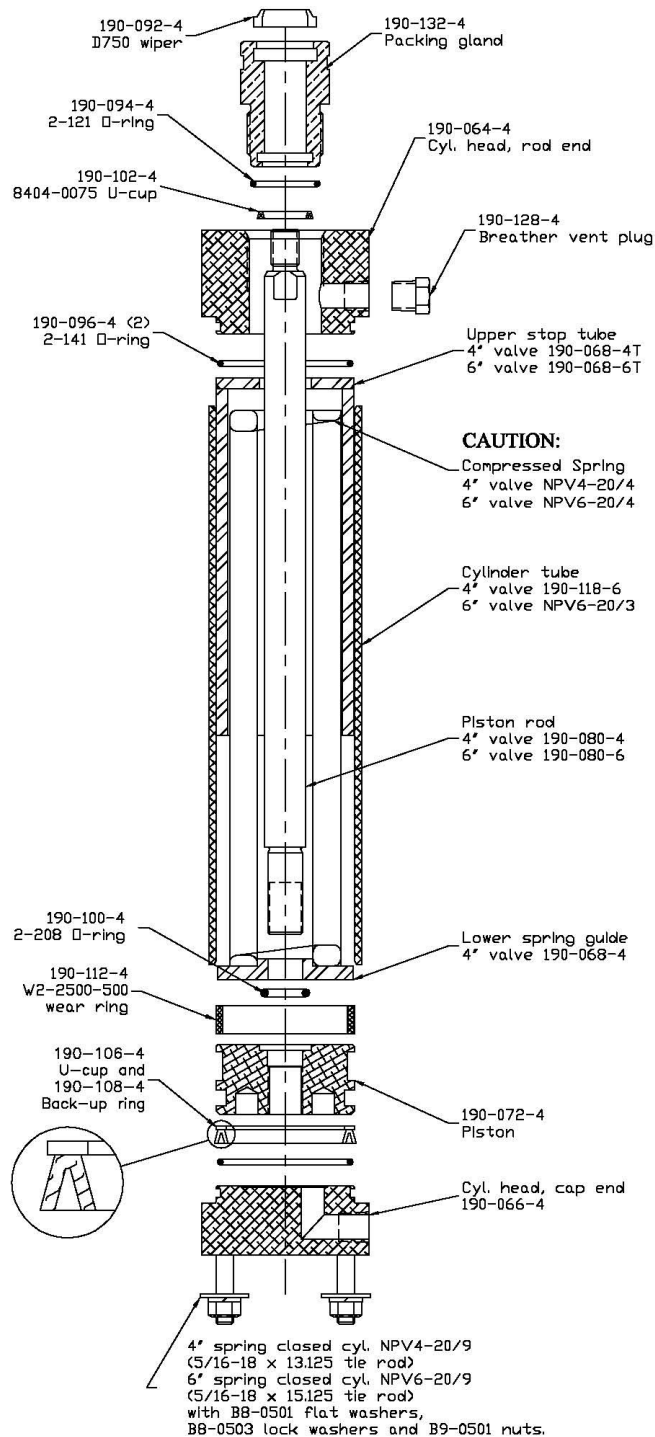
DESCRIPTION	A	B	C	D	E	F	G	H	I	J	K
4" HYDRAULIC - SPRING CLOSE	6.05	3.00	3.25	13.79	3.00	17.40	3.56	7.13	7.12	6.50	8.00
6" HYDRAULIC - SPRING CLOSE	6.30	3.00	4.00	15.67	4.50	23.33	4.50	9.00	7.18	7.75	9.25

NVE PISTON GATE VALVES WITH SPRING CLOSE HYDRAULIC CYLINDER

DESCRIPTION	PART NUMBER
4" NVE VALVE - CARBON STEEL - HYDRAULIC / SPRING CLOSE	180-4C2
4" NVE VALVE - STAINLESS STEEL - HYDRAULIC / SPRING CLOSE	180-4S2
6" NVE VALVE - CARBON STEEL - HYDRAULIC / SPRING CLOSE	180-6C2
6" NVE VALVE - STAINLESS STEEL - HYDRAULIC / SPRING CLOSE	180-6S2

NVE Valves with Actuators • Hydraulic Spring Closed

DESCRIPTION	PART NUMBER
CYLINDER ASSEMBLY - 4" NPV, HYDRAULIC / SPRING CLOSED	190-116-4HYD
CYLINDER ASSEMBLY - 6" NPV, HYDRAULIC / SPRING CLOSED	190-116-6HYD



VALVES

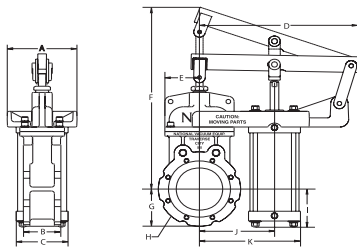
NVE Valves with Actuators • Pneumatic Spring Closed

Piston Gate Valves with Spring Close Pneumatic Cylinder

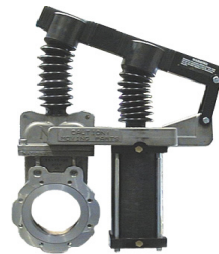
Valve Features: Steel or Stainless Steel Body; Stainless Steel Stem, Seat, Gate and Guide are Standard; Viton Seals Standard; Viton O-Ring Seal on Seat; Other O-Ring Materials Available; Completely Rebuildable and Self-Cleaning; accepts TTMA and ANSI Flanges. MAWP 100 PSI; Burst Pressure greater than 400 PSI. Dual Gate version available for applications requiring horizontal mounting or with high contents of solids.

Actuator: Actuator Assembly features Stainless Steel Bracket and Fasteners; Powder Coat Painted Parts; Self-Lubricating Cylinder; Replaceable Seals; and a Million-Cycle Spring. Maximum Cylinder Operating Pressure 150 PSI.

Dimensions:



4" Piston Gate Valve



NVE SPRING CLOSED VALVE - DIMENSIONS

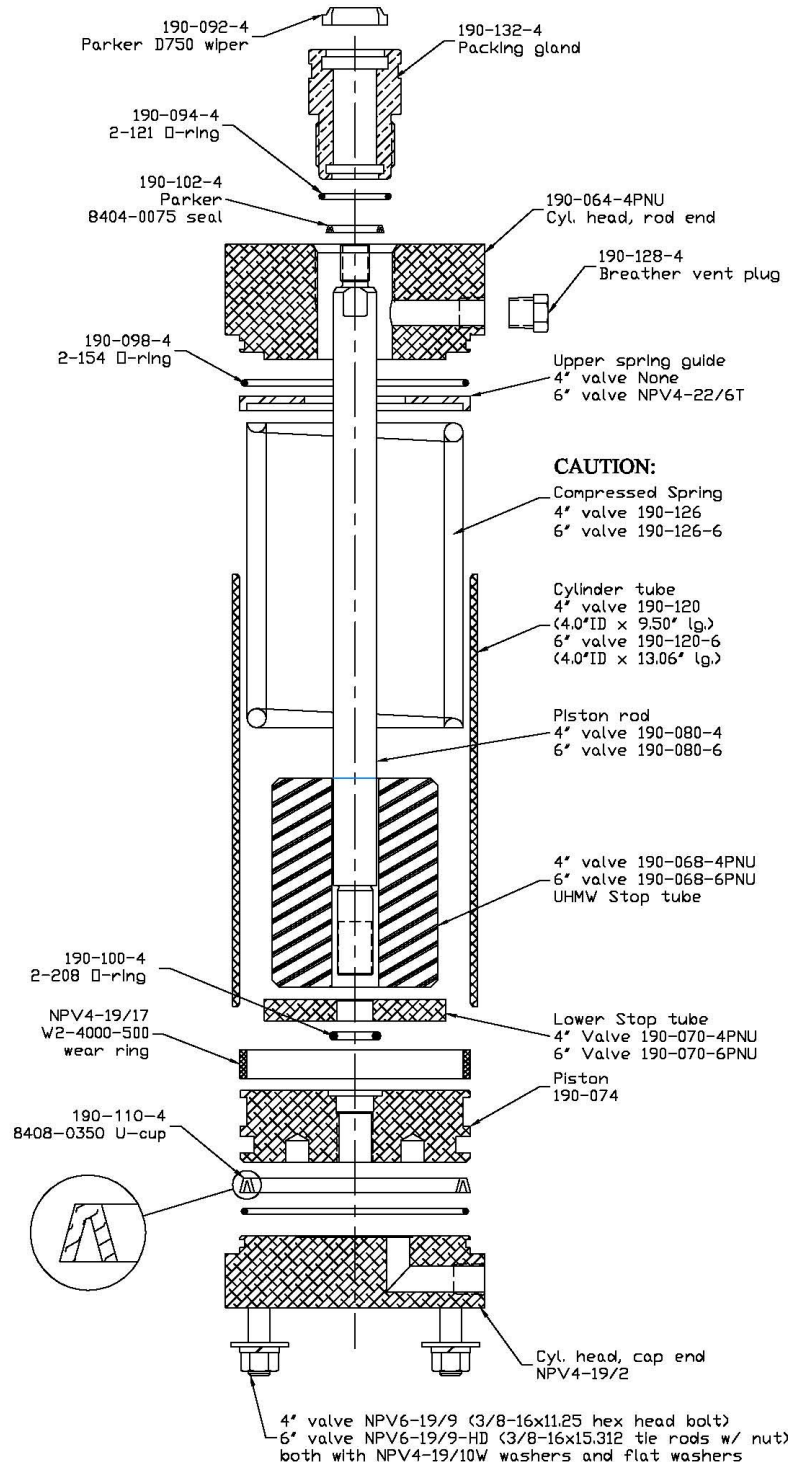
DESCRIPTION	A	B	C	D	E	F	G	H	I	J	K
4" PNEUMATIC - SPRING CLOSE	6.05	3.25	4.50	13.79	3.00	17.40	3.56	7.13	3.63	6.50	8.75
6" PNEUMATIC - SPRING CLOSE	6.30	4.00	4.50	15.67	4.50	23.33	4.50	9.00	3.69	7.75	10.00

NVE PISTON GATE VALVES WITH SPRING CLOSE PNEUMATIC CYLINDER

DESCRIPTION	PART NUMBER
4" NVE VALVE - CARBON STEEL - PNEUMATIC / SPRING CLOSE	180-4C1
4" NVE VALVE - STAINLESS STEEL - PNEUMATIC / SPRING CLOSE	180-4S1
6" NVE VALVE - CARBON STEEL - PNEUMATIC / SPRING CLOSE	180-6C1
6" NVE VALVE - STAINLESS STEEL - PNEUMATIC / SPRING CLOSE	180-6S1

NVE Valves with Actuators • Pneumatic / Spring Closed

DESCRIPTION	PART NUMBER
CYLINDER ASSEMBLY - 4" NPV, PNEUMATIC / SPRING CLOSED	190-116-4PNU
CYLINDER ASSEMBLY - 6" NPV, PNEUMATIC / SPRING CLOSED	190-116-6PNU



NVE Valves with Actuators • Pneumatic Spring Closed

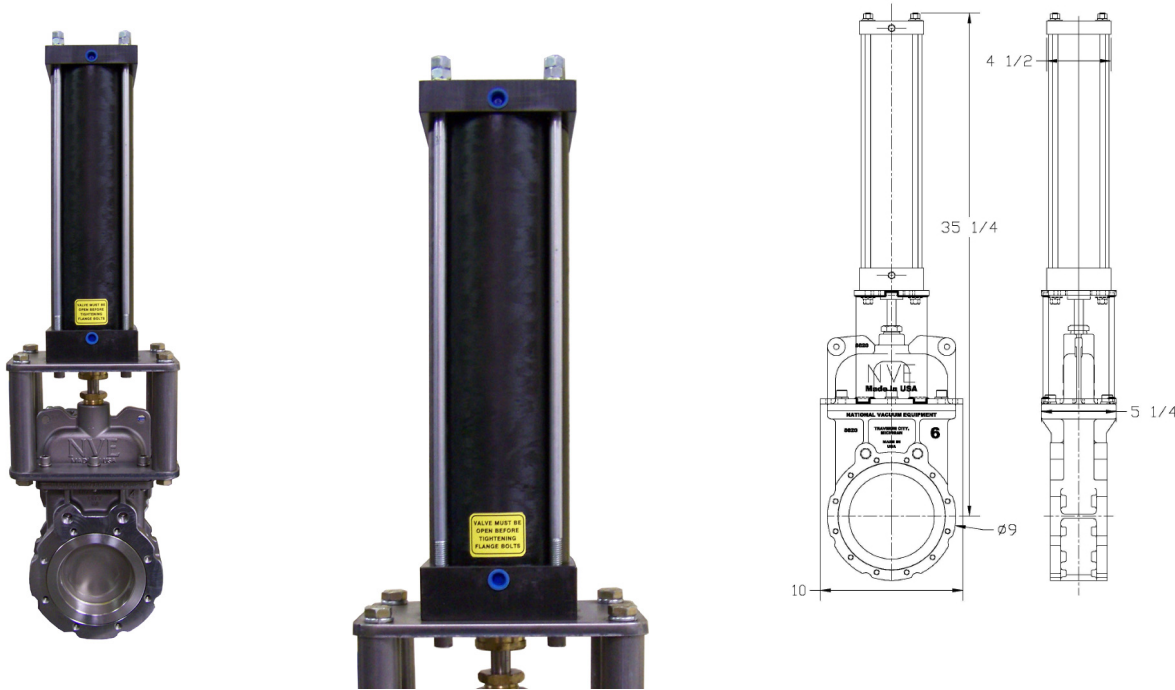
Top Mount Cylinder Piston Gate Valves with Spring Close Pneumatic Cylinder

Features:

Valve: Steel or Stainless Steel Body; Stainless Steel Stem, Seat, Gate and Guide are Standard; Viton Seals Standard; Viton O-Ring Seal on Seat; Other O-Ring Materials Available; Completely Rebuildable and Self-Cleaning; accepts TTMA and ANSI Flanges. MAWP 100 PSI; Burst Pressure greater than 400 PSI. Dual Gate version available for applications requiring horizontal mounting or with high contents of solids

Actuator: Actuator Assembly features Stainless Steel Bracket and Fasteners; Powder Coat Painted Parts; Self-Lubricating Cylinder; Replaceable Seals; and a Million-Cycle Spring. Maximum Cylinder Operating Pressure 150 PSI.

Dimensions:

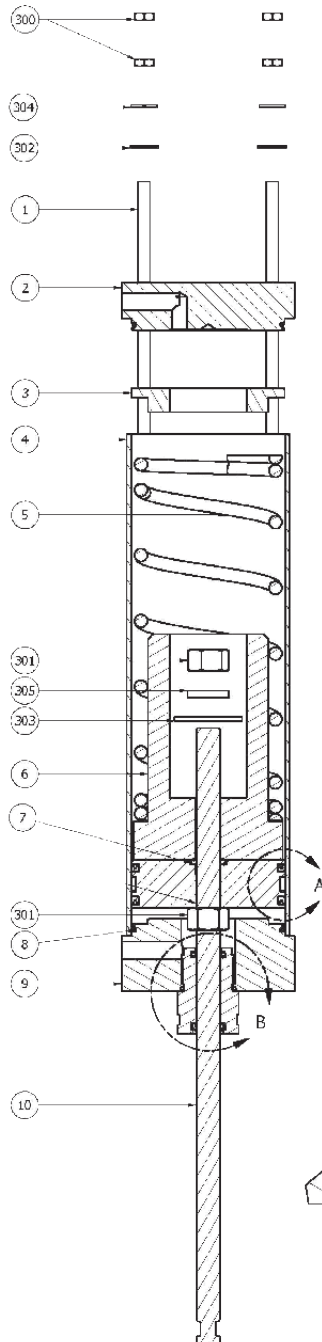


TOP MOUNT NVE PISTON GATE VALVES W/ SPRING CLOSE PNEUMATIC CYLINDER

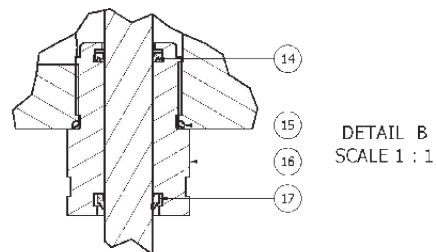
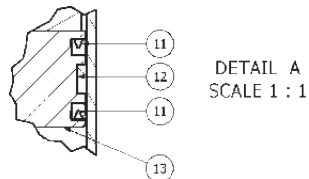
DESCRIPTION	PART NUMBER
4" TOP MOUNT NVE VALVE - C. STEEL - PNEUMATIC / SPRING	180-4CTM
6" TOP MOUNT NVE VALVE - C. STEEL - PNEUMATIC / SPRING	180-6CTM
6" TOP MOUNT NVE VALVE - S. STEEL - PNEUMATIC / SPRING	180-6STM

NVE Valves with Actuators • Pneumatic Spring Closed

DESCRIPTION	PART NUMBER
CYLINDER ASSEMBLY - 4" NPV, TM PNEUMATIC / SPRING CLOSED	190-116-4TM
CYLINDER ASSEMBLY - 6" NPV, TM PNEUMATIC / SPRING CLOSED	190-116-6TM



ITEM	PART NUMBER	DESCRIPTION
1	190-130-6	CYLINDER TIE ROD, 5/16-18, 15.312" LG.
2	190-066-4PNU	CYLINDER HEAD, CAP END
3	190-124-4	SPRING GUIDE, 4" TM
4	190-120-6	4" TM CYLINDER TUBE, 4" BORE, 13.06" LG.
	190-120-6TM	6" TM CYLINDER TUBE
5	190-126	4" TM SPRING, 11.48 F.L., 62.1 LBF/IN
	190-126-6	6" TM SPRING, 17.75" F.L.
6	190-068-4TM	4" TM STOP TUBE
	190-068-6TM	6" TM STOP TUBE
7	190-100-4	O-RING, 2-208 NITRILE 70 DURO
8	190-098-4	O-RING, 2-154 NITRILE 70 DURO
9	190-064-4PNU	CYLINDER HEAD, ROD END
10	190-080-4TM	4" TM PISTON ROD, AIR/P
	190-080-6TM	6" TM PISTON ROD, AIR/P
11	190-110-4	SEAL, 4.00 BORE 3/16" U-CUP
12	190-114-4	WEAR RING, 4.00 OD X .375
13	190-074	PISTON, 4" BORE DUAL SEAL CYL.
14	180-102-6TM	SEAL, 4.00 BORE 3/16" U-CUP
15	190-094-4	O-RING, 2-121 NITRILE 70 DURO
16	190-132-6TM	PACKING NUT, BRASS, TOP MOUNT
17	190-092-6TM	WIPER, .625, 90 DURO
300	SEE DESC	HEX NUT - 5/16 UNC
301	SEE DESC	HEX NUT - 5/8 UNF
302	SEE DESC	FLAT WASHER - 5/16
303	SEE DESC	FLAT WASHER - 5/8
304	SEE DESC	LOCK WASHER - 5/16
305	SEE DESC	LOCK WASHER - 5/8



NVE Valve Flanges - ANSI

Valve Flanges:

The NPV piston gate valves are machined to receive either the TTMA or ANSI flanges. The TTMA flange bolts to the face of the valve. The ANSI flange bolts together outside the valve face effectively sandwiching the valve. We offer various combinations of flanges and connectors as well as flange to flange adaptors. We can customize a flange arrangement to your needs.

FLANGE BOLT PATTERN	CONNECTION	MATERIAL	PART NUMBER
ANSI 3"	HOLE FOR 3" PIPE	CARBON	402-300-W
ANSI 4"	ANSI 4"	CARBON	402-400-4ADT-X
ANSI 4"	4" MALE NPT	CARBON	402-400-4MPT
ANSI 4"	4" MALE NPT W/ SHEAR SECTION	CARBON	402-400-4MPT-X
ANSI 4"	4" FEMALE NPT	CARBON	402-400-4NPT-F
ANSI 4"	4" HOSEBARB	CARBON	402-400-HB
ANSI 4" RAD SLOTTED	HOLE FOR 4" PIPE	CARBON	402-400-RSC
ANSI 4" HOR SLOTTED	HOLE FOR 4" PIPE	CARBON	402-400-SWF
ANSI 4"	HOLE FOR 4" PIPE	CARBON	402-400-W
ANSI 4"	HOLE FOR 4" PIPE	STAINLESS	402-400-WS
ANSI 4"	HOLE FOR 3" PIPE	CARBON	402-403-C

FLANGE BOLT PATTERN	CONNECTION	MATERIAL	PART NUMBER
ANSI 6"	4" HOSE BARB	CARBON	402-600-400-HB
ANSI 6" RAD SLOTTED	HOLE FOR 4" PIPE	CARBON	402-600-400-RSC
ANSI 6" RAD SLOTTED	HOLE FOR 5" PIPE	ALUMINUM	402-600-500-RSA
ANSI 6" RAD SLOTTED	HOLE FOR 5" PIPE	CARBON	402-600-500-RSC
ANSI 6"	HOLE FOR 5" PIPE	CARBON	402-600-500-WF
ANSI 6"	6" MALE NPT	CARBON	402-600-6NPT
ANSI 6"	6" FEMALE NPT	CARBON	402-600-6NPT-F
ANSI 6"	6" MALE NPT W/ SHEAR SECTION	CARBON	402-600-6NPT-X
ANSI 6"	6" HOSE BARB	CARBON	402-600-HB
ANSI 6" RAD SLOTTED	HOLE FOR 6" PIPE	CARBON	402-600-RSC
ANSI 6"	HOLE FOR 6" PIPE	CARBON	402-600-WF
ANSI 6"	HOLE FOR 6" PIPE	CARBON	402-600-WFS

NVE Valve Flanges - TTMA

FLANGE BOLT PATTERN	CONNECTION	MATERIAL	PART NUMBER
TTMA 3"	BLANK	CARBON	404-300-000
TTMA 4" SLOTTED	BLANK	CARBON	404-400-000
TTMA 4"	4" MALE NPT W/ SHEAR SECTION	CARBON	404-400-1C-X
TTMA 4"	4" MALE NPT	STAINLESS	404-400-1S
TTMA 4"	4" MALE NPT W/ SHEAR SECTION	STAINLESS	404-400-1S-X
TTMA 4"	HOLE FOR 3" PIPE, OFFSET	CARBON	404-400-300-WFS
TTMA 4"	3" MALE NPT	CARBON	404-400-3NPT-S
TTMA 4"	4" CHEMICAL ADAPTER	CARBON	404-400-4CHEM
TTMA 4"	4" MALE NPT	CARBON	404-400-4NPT
TTMA 4"	4" FEMALE NPT	CARBON	404-400-4NPT-F
TTMA 4"	4" MALE NPT	STAINLESS	404-400-4NPT-S
TTMA 4"	4" TTMA	STAINLESS	404-400-AFS
TTMA 4" SLOTTED	HOLE FOR 4" PIPE	CARBON	404-400-C
TTMA 4"	4" HOSE BARB	CARBON	404-400-HB
TTMA 4"	HOLE FOR 4" PIPE	CARBON	404-400-W
TTMA 4"	4" CHEMICAL ADAPTER	CARBON	404-400-W-CHEM
TTMA 4"	HOLE FOR 4" PIPE	STAINLESS	404-400-WS
TTMA 4"	4" CHEMICAL ADAPTER	STAINLESS	404-400-WS-CHEM

FLANGE BOLT PATTERN	CONNECTION	MATERIAL	PART NUMBER
TTMA 6"	6" MALE NPT W/ SHEAR SECTION	CARBON	404-600-1C-X
TTMA 6"	6" MALE NPT W/ SHEAR SECTION	STAINLESS	404-600-1S-X
TTMA 6"	6" FEMALE NPT	CARBON	404-600-6FPT
TTMA 6"	6" MALE NPT	CARBON	404-600-6NPT
TTMA 6"	6" MALE NPT	STAINLESS	404-600-6NPT-S
TTMA 6"	6" TTMA	CARBON	404-600-AF
TTMA 6"	6" TTMA	STAINLESS	404-600-AFS
TTMA 6"	HOLE FOR 6" PIPE	ALUMINUM	404-600-WA
TTMA 6"	HOLE FOR 6" PIPE	CARBON	404-600-WF
TTMA 6"	HOLE FOR 6" PIPE	STAINLESS	404-600-WS

NVE Valve Gaskets

DESCRIPTION	PART NUMBER
GASKET, TTMA 6" BUNA	404-600-GB
GASKET, TTMA 6" CORK	404-600-GC
GASKET, TTMA 6" FIBER	404-600-GF
GASKET, TTMA 6" TEFLON	404-600-GT

DESCRIPTION	PART NUMBER
GASKET, TTMA 4" BUNA	404-400-GB
GASKET, TTMA 4" CORK	404-400-GC
GASKET, TTMA 4" FIBER	404-400-GF
GASKET, TTMA 4" TEFLON	404-400-GT

VALVES

FOUR-WAY VALVES

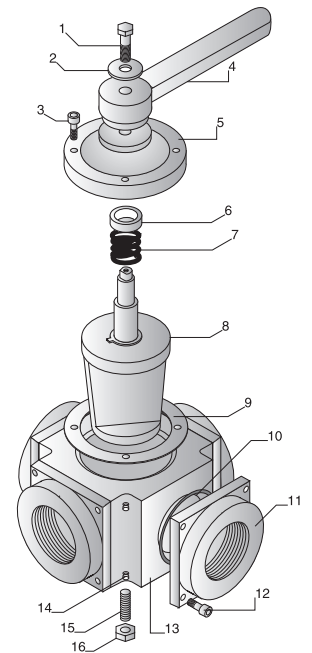
FOUR-WAY VALVES - COMPLETE ASSEMBLIES

DESCRIPTION	PART NUMBER
4-WAY VALVE, 3"	410-003
4-WAY VALVE, 3", ASSEMBLY, NO	410-003-NF
4-WAY VALVE, 4"	410-004-002
4-WAY VALVE, 4", ASSEMBLY, NO	410-004-002NF
4-WAY VALVE, 6", W/O FLANGES	410-006
4-WAY VALVE, 6", ASSEMBLY, NO	410-006-002
4-WAY VALVE, 6" AIR ACTUTATED	410-006-AIR

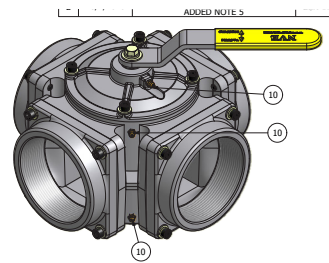
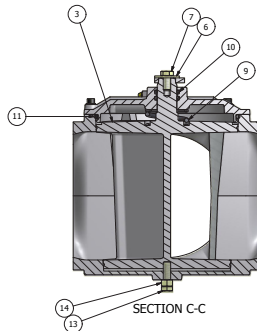
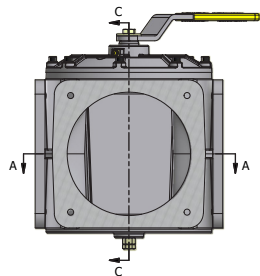
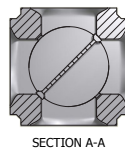


FOUR-WAY VALVES - REPLACEMENT PARTS

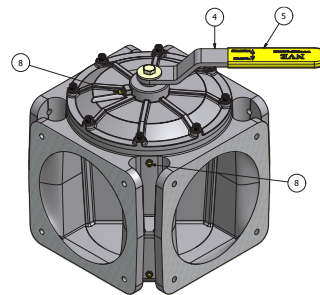
ITEM	PART NUMBER	DESCRIPTION
1	SEE DESC	HANDLE BOLT - HHCS 3/8-16 UNC X 1" LG.
2	SEE DESC	VALVE WASHER - 3/8" FLAT WASHER
3	SEE DESC	TOWER BOLT - HHCS 3/8-16 UNC X 3/4" LG.
4	120-060	VALVE HANDLE
5	412-065-00#	VALVE TOWER (# = SIZE 3,4)
6	120-040	VALVE SEAL
7	412-045-003	VALVE SPRING
8	412-062-00#	VALVE PLUG (# = SIZE 3,4)
9	412-068-00#	TOWER GASKET (# = SIZE 3,4)
10	120-064-367	VALVE FLANGE O-RING (3")
	120-064-506	VALVE FLANGE O-RING (4")
11	120-063-367	VALVE FLANGE (3")
	120-063-506	VALVE FLANGE (4")
12	SEE DESC	FLANGE BOLT - 3/8-16 UNC X 1 1/4" LG.
13	412-067-00#	VALVE HOUSING (# = SIZE 3,4)
14	190-014-359	GREASE FITTING
15	SEE DESC	3/8 UNC HEX NUT
16	SEE DESC	SET SCREW



VALVES

[illegible]

PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	412-067-004-2	HOUSING, VALVE, 4" 4-WAY, MACHINED
2	1	412-062-004-2	PLUG, VALVE, 4" 4-WAY, MACHINE
3	1	412-065-004-2	TOWER, VALVE, 4" 4-WAY, MACHINED
4	1	120-060-001	HANDLE, 367 GEN 2
5	1	120-060-002	GRIP, HANDLE W/ LOGO
6	20	SHCS - 5/16-18 UNC X 1.25	SHCS - 5/16-18 UNC X 1.25
7	20	LW - 5/16	LOCK WASHER, 5/16
8	1	HHCS - 3/8-16 UNC x 0.75	HHCS - 3/8-16 UNC x 0.75
9	1	FW - 3/8 USS	FLAT WASHER - 3/8 USS
10	3	190-014-359	GREASE FITTING, 1/4-28 UNF
11	1	HN 3/8 - 16	Hex Nuts (Inch Series) Hex Nut
12	1	120-045	4-Way FV Spring (Compressed)
13	1	412-102-251	O-RING, 2-251, FPM
14	2	120-064-002	O-RING, 2-214 VITON
15	1	HHCS - 3/8 - 16 UNC X 1.25	HHCS - 3/8-16 UNC X 1.25
16	4	120-063-506	Flange, 4" NPT
17	4	120-064-506	Oring, 2-158 Silicone
18	1	LW - 3/8	LOCK WASHER, 3/8"

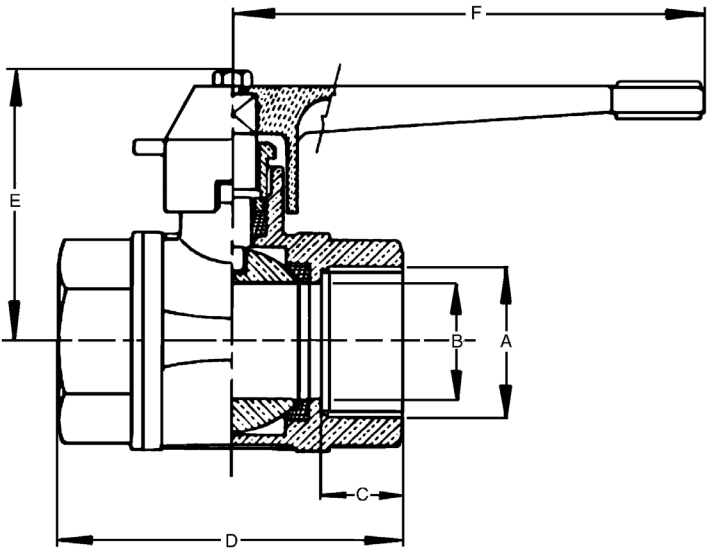


		PARTS LIST	
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	412-067-006	HOUSING, VALVE, 6" 4-WAY, MACHINED
2	1	412-065-006	TOWER, VALVE, 6" 4-WAY, MACHINED
3	1	412-063-006	PLUG, VALVE, 6" 4-WAY, MACHINED
4	1	120-060-001	HANDLE, 367 GEN 2
5	1	120-060-002	GRIP, HANDLE W/ LOGO
6	1	ANSI B18.22.1 - 3/8 - Type B	Plain Washer (Inch Type A and B)
7	1	ANSI B18.2.1 - 3/8-16 UNC - 7/16	Hex Cap Screw
8	3	190-014-359	GREASE FITTING, 1/4-28 UNF
9	1	120-045	4-Way FV Spring (Compressed)
10	2	120-064-002	O-RING, 2-214 VITON
11	1	120-064-006	O-RING, 2-365 VITON
12	8	SHCS - 1, 4-20 UNC x 0.75	SHCS - 1, 4-20 UNC x 0.75
13	1	HHCS - 3, 8-16 UNC x 1.25	HHCS - 3, 8-16 UNC x 1.25
14	1	ANSI B18.2.2 - 3/8 - 16	Hex Nuts (Inch Series) Hex Nut
15	8	LW - 1, 4	LOCK WASHER, 1/4"

Ball Valves

Features: Standard female pipe thread ports both ends, Full port; chrome-plated bronze; Teflon® seats

PART NUMBER	A	B	C	D	E	F
360-310-2	2	2	.825	4.4	3.8	5.5
360-310-3	3	3	1.1	6.3	5	9.5
360-310-4	4	4	1.2	7.3	6	12



VALVES

Ball Valves

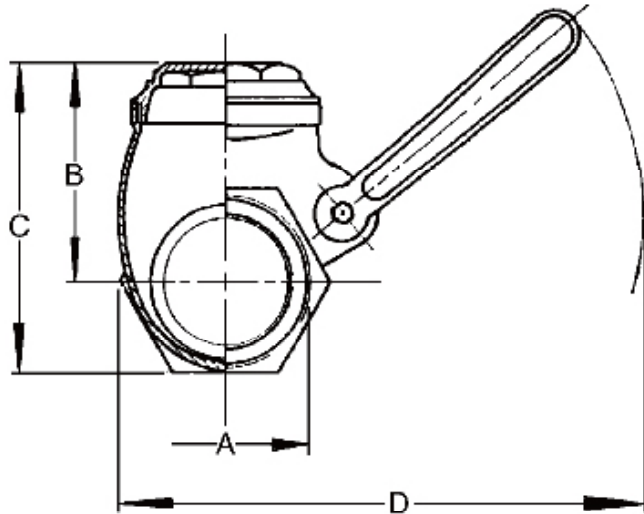
DESCRIPTION	PART NUMBER
2" Ball Valve - FNPT Thread	360-310-2
3" Ball Valve - FNPT Thread	360-310-3
4" Ball Valve - FNPT Thread	360-310-4

Lever Valves

Features: Bronze construction; double gate.

Advantages: Improved sealing ability and a double wedge gate design, so that the gate can fit perfectly in the tapered seat

PART NUMBER	A	B	C	D
362-301-2	2	3.2	4.5	9.8
362-301-3	3	4.7	6.7	13.4
362-301-4	4	5.8	8.4	16.3
362-301-6	6	9	12.5	18.3



LEVER VALVES

DESCRIPTION	PART NUMBER
2" Lever Valve - NPT Thread	362-301-2
3" Lever Valve - NPT Thread	362-301-3
4" Lever Valve - NPT Thread	362-301-4
6" Lever Valve - NPT Thread	362-301-6

LEVER VALVE ASSEMBLIES

DESCRIPTION	PART NUMBER
3" Lever Valve Assembly	362-301-3A
4" Lever Valve Assembly	362-301-4A
6" Lever Valve Assembly	362-301-6A

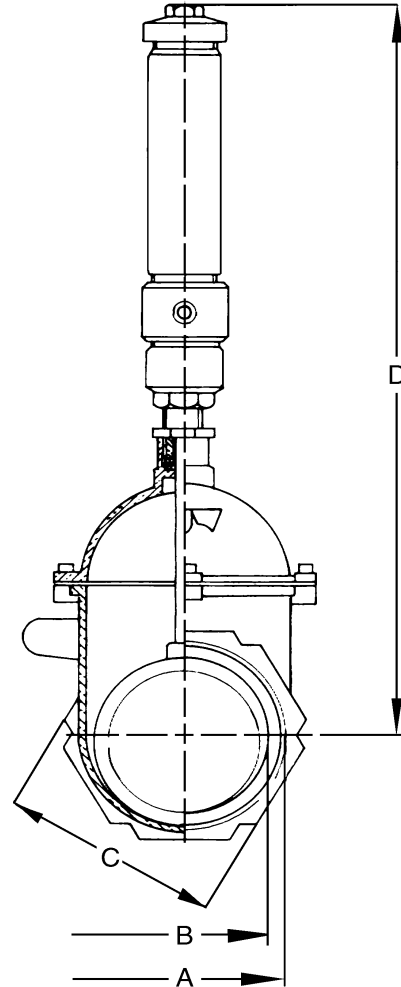
LEVER VALVE REPLACEMENT PARTS

DESCRIPTION	PART NUMBER
2" Lever Valve Handle	362-301-21
3", 4" and 6" Lever Valve Handle	362-301-41
3" Lever Valve Stem	362-301-33
4" Lever Valve Stem	362-301-43
6" Lever Valve Stem	362-301-63
3" Lever Valve Packing	362-301-32
4", 6" Lever Valve Packing	362-301-42

Piston Valves

Piston Valves

Piston Valves – Air Actuated – Parts Diagram



PISTON VALVES - AIR ACTUATED

DESCRIPTION	PART NUMBER
4" Piston Valve - Air Actuated	350-302-4
6" Piston Valve - Air Actuated - NPT Thread	352-302-6

PISTON VALVES - AIR ACTUATED

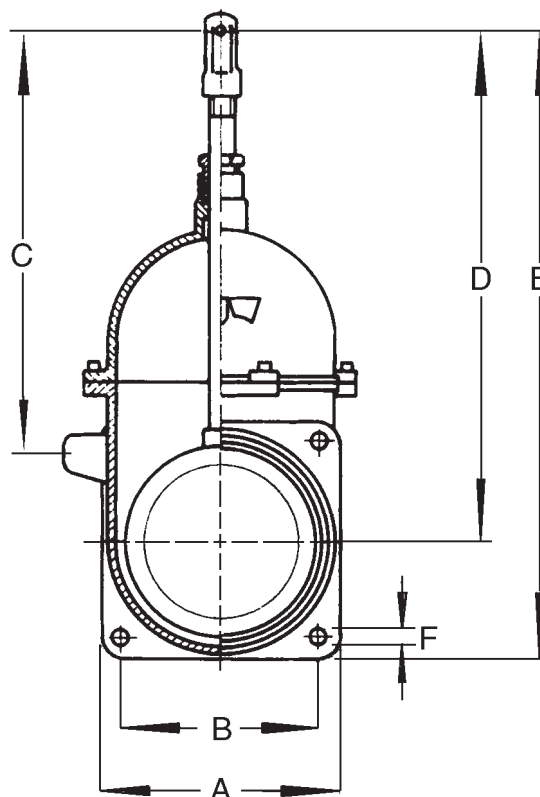
DESCRIPTION	PART NUMBER
4" and 6" Air Actuator	352-302-0
4" and 6" Piston Flange O-Ring	354-64
6" Piston Valve Flange	354-65
4" Piston Valve Handle	356-302-4RH
6" Piston Valve Handle	358-302-6RH

Piston Valves (cont.)

LEVER VALVE DIMENSIONS

PART NUMBER	A	B	C	D	E	F
354-302-4	7	3.5	9.4	11.4	14.9	0.5
354-302-6	7	5.8	12.6	15.3	18.9	0.5

VALVES



PISTON VALVES - FLANGE MOUNT

DESCRIPTION	PART NUMBER
4" Piston Valve - Flange Mount*^	354-302-4
6" Piston Valve - Flange Mount*^	354-302-6

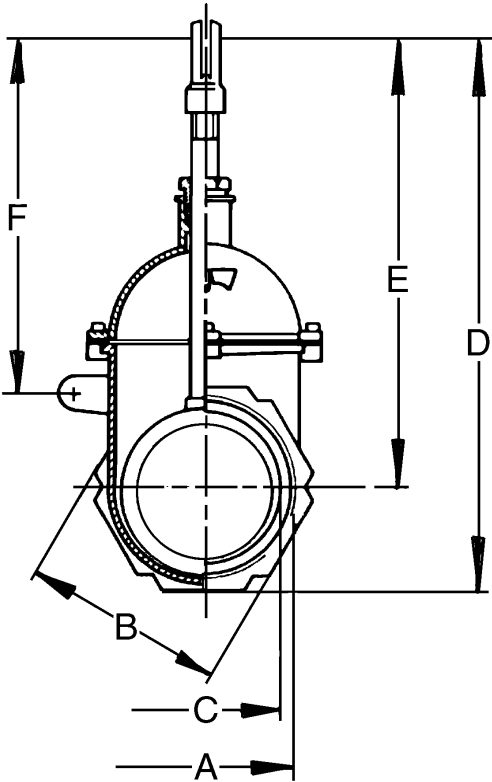
* Order O-Rings & Flange Plates Separately

^ Order Handles Separately

Piston Valves (cont.)

Piston Valves – NPT Thread – Parts Dimensions

PART NUMBER	A	B	C	D	E	F
356-302-4	4	4.9	3.6	12.6	10.4	8.6
358-302-6	6	6.9	5.7	18.9	15.4	12.6



DESCRIPTION	PART NUMBER
4" Piston Valve - NPT Thread^	356-302-4
6" Piston Valve - NPT Thread^	358-302-6

^ Order Handles Separately

VALVES

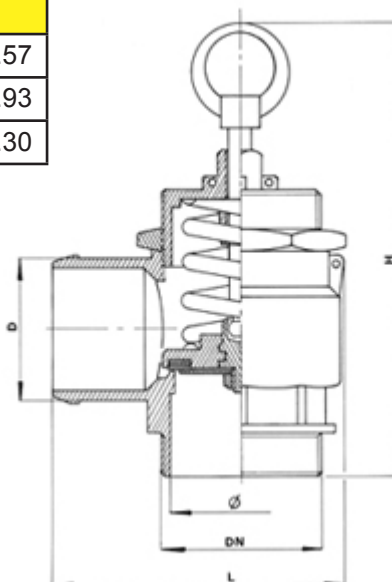
Valves Pressure and Vacuum Relief

Relief Valves - Pressure Relief Valve (7 to 21 psi)

PRESSURE RELIEF VALVES

DESCRIPTION	PART NUMBER
1 1/4" Pressure Relief Valve - Gas Thread (NPT)	364-306-1.25
1 1/2" Pressure Relief Valve - Gas Thread (NPT)	364-306-015
2" Pressure Relief Valve - Gas Thread (NPT)	364-306-2

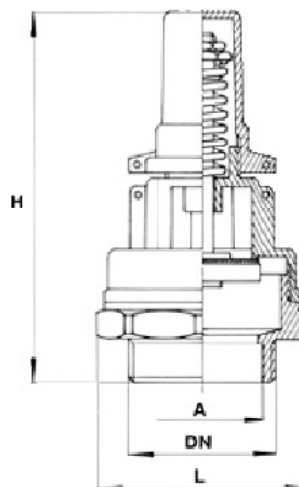
PART NUMBER	DN	A	L	D	H
364-306-1.25	1.25	1.25	3.66	1.57	6.57
364-306-015	1.50	1.53	3.93	1.77	6.93
364-306-2	2.00	2.00	4.38	1.97	6.30



VACUUM RELIEF VALVES

DESCRIPTION	PART NUMBER
1 1/2" Vacuum Relief Valve - Gas Thread (NPT)	366-150

PART NUMBER	DN	A	L	H
366-150	1.5	1.57	4.72	2.72



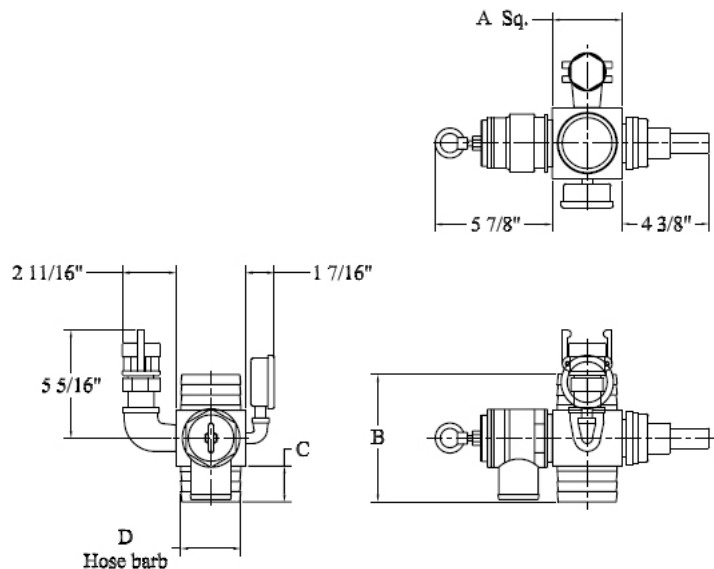
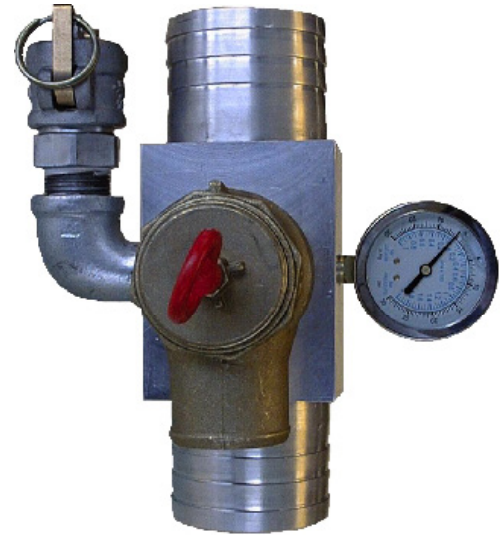
Valves Pressure and Vacuum Relief

Relief Manifold Assemblies

Aluminum construction machined to be easily installed in 2", 3" or 4" systems.

Each unit comes complete with these features:

- Pressure Relief Valve
- Vacuum Relief Valve
- Liquid filled Vacuum/Pressure gauge
- 1" port for Diesel Flush



PART NUMBER	A	B	C	D
406-301-2	2.50	5.25	1.50	2.00
406-301-3	3.50	6.25	1.75	3.00
406-301-4	4.50	7.50	2.25	4.00

ALUMINUM RELIEF MANIFOLD

DESCRIPTION	PART NUMBER
2" Relief Manifold Assembly	406-301-2
3" Relief Manifold Assembly	406-301-3
4" Relief Manifold Assembly	406-301-4

Gauges Vacuum and Pressure



VALVES

VACUUM / PRESSURE GAUGES

DESCRIPTION	PART NUMBER
VACUUM / PRESSURE GAUGE - 2 1/2" LIQUID FILLED	408-250-LF
VACUUM / PRESSURE GAUGE - 3 1/2"	408-350
VACUUM / PRESSURE GAUGE - 4"	408-400
VACUUM / PRESSURE GAUGE - 4" LIQUID FILLED	408-400-LF

Butterfly Valves

Easily installed in 4" or 8" systems.

Each unit comes complete with these features:

- Stainless Steel Stem
- Nylon Plated Disc
- ANSI 125 / 150 Flange Compatible



BUTTERFLY VALVES WITHOUT FLANGES

DESCRIPTION	PART NUMBER
4" Butterfly Valve	380-100-4
8" Butterfly Valve	380-100-8

VALVES

VALVES