

WILKINS 475 ST / STV / STR / STRV

SIZE

4", 6", 8", 10"

DESCRIPTION

This is a reduced pressure assembly. Production began in 2018. The body is stainless steel and configured in an angle pattern. The normal installation orientation in the ST models allows water to come up from the bottom and then going through two 90 degree turns and goes into a downward flow. this is commonly called a N pattern installation. The STV model allows for a vertical orientation. This can happen when the downside 2nd check body is rotated 180 degrees. This allows the flow of water to come up from the inlet check and then rotate the outlet so it goes into an upward flow. The STR model has a spool placed between the two check bodies making an adjustable center to center dimension. This allows for a retrofit installation. The rubber repair parts are the same in all 475ST versions. There is a separate check cover for the inlet and outlet check. The cover is attached to the body by a grooved coupling. When the cover is removed, the springs are contained. On the 4"-6" sizes the checks are held into the body by a plastic retainer. By squeezing the retainer it can be released and removed then the Noryl plastic check can be pulled from the body. The modular check is sealed into the body by an O'ring. The 8"-10" size checks are held in by 6 bolts rather than a retainer clip. Once the Noryl plastic check module is removed there are bolts on the back side that can be removed to access the check disc. Spring tension is contained and does not need to be released. If more than the rubber check disc is needed for repair, the check module will need to be replaced. The relief valve body is made of a lead free bronze and is bolted to the outside of the check body and attached by an external relief valve sensing line. The relief valve spring is not contained when the relief valve cover is removed.

BASIC REPAIR KIT

Repair kit contains check discs and O'rings

<u>Size</u>	<u>Kit No</u>
4"	375400 *
6"	375600 *
8-10"	375800 *

IMPORTANT FEATURES

~Stainless Steel N-Shape Body

~The STR model has a spool making an adjustable center to center dimension

~Checks are Noryl plastic and modular in construction

~Factory repair information enclosed



Materials

Main Valve Body	304L Stainless steel
Access covers	304L Stainless steel
Coatings	FDA Approved electrostatic epoxy finish
Internals	Stainless steel, 300 Series NORYL™, NSF Listed
Fasteners & Springs	Stainless Steel, 300 Series
Seal rings	EPDM (FDA approved)
O-rings	Buna Nitrile (FDA approved)
Sensing line	Stainless Steel, braided hose



LEAD FREE

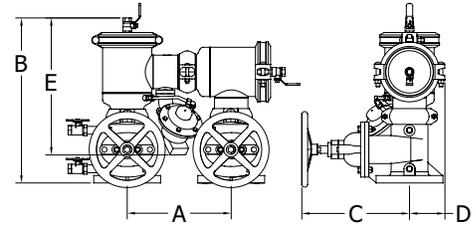


NSF/ANSI 61

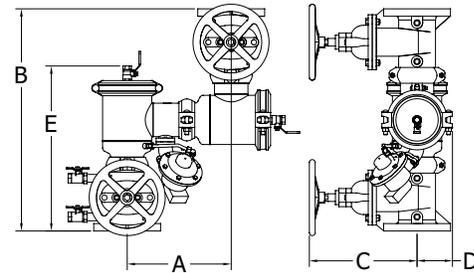
Features

Sizes:	4", 6", 8", 10"
Maximum working water pressure	175 psi
Minimum working water pressure	25 psi
Maximum working water temperature	140° F
Minimum working water temperature	33° F
Hydrostatic test pressure	350 psi
End connections (Grooved for steel pipe)	AWWA C606-87
(Flanged)	ANSI B16.1
	Class 125

475ST



475STV



Relief Valve discharge port:

2 1/2" - 6" - 2.75 sq. in.
8" - 10" - 3.69 sq. in.

Dimensions & Weights (do not include pkg.) 475ST

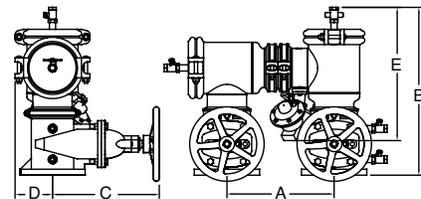
SIZE	WEIGHT											
	WITH NRS GATE (GXF)		WITH NRS GATE (GXG)		WITH OS&Y GATES (GXF)		WITH OS&Y GATES (GXG)		WITH BFLY VALVES (GXF)		WITH BFLY VALVES (GXG)	
	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg
4"	255	116	235	107	265	120	225	102	155	70	132	60
6"	385	175	355	161	401	182	371	168	221	100	190	86
8"	670	304	630	286	694	315	654	297	428	194	382	173
10"	863	391	811	368	909	412	857	389	534	242	476	216

SIZE	DIMENSION (approximate)																				
	A		B WITH GATE VALVES		B WITH BUTTERFLY VALVES		C OS&Y OPEN		C OS&Y CLOSED		C NRS GATES		C WITH BUTTERFLY VALVES		D		E		E WITH BUTTERFLY VALVES		
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	
4" 475ST	100	14	356	22 1/4	565	19 7/8	505	22 1/2	572	9	229	14 1/2	368	9	229	4 3/4	119	18 3/8	467	18 3/8	467
4" 475STV	100	14	356	29 7/8	760	25 1/8	638	22 1/2	572	9	229	14 1/2	368	9	229	4 3/4	119	22 1/4	565	19 7/8	505
6" 475ST	150	16	406	27 7/8	708	24 3/4	630	30 1/2	775	10 1/2	267	18	457	10 1/4	260	6 1/8	158	22 3/8	570	22 3/8	570
6" 475STV	150	16	406	36 1/4	922	29 1/8	740	30 1/2	775	10 1/2	267	18	457	10 1/4	260	6 1/8	158	27 7/8	708	24 3/4	630
8" 475ST	200	18 1/2	470	34 7/8	886	29 1/8	740	37	940	12	305	22	560	12	305	8 7/8	223	30 5/8	780	30 5/8	780
8" 475STV	200	18 1/2	470	40 1/4	1022	51 1/4	1302	37	940	12	305	22	560	12	305	8 7/8	223	34 7/8	886	29 1/8	740
10" 475ST	250	21	533	38 3/4	984	35 3/4	910	45 5/8	1159	12	305	24 3/4	630	13	330	8 7/8	223	32 3/4	832	32 3/4	832
10" 475STV	250	21	533	45 7/8	1165	59 7/8	1521	45 5/8	1159	12	305	24 3/4	630	13	330	8 7/8	223	38 3/4	984	35 3/4	908

Dimensions & Weights (do not include pkg.) 475STR

SIZE	WEIGHT											
	WITH NRS GATE (GXF)		WITH NRS GATE (GXG)		WITH OS&Y GATES (GXF)		WITH OS&Y GATES (GXG)		WITH BFLY VALVES (GXF)		WITH BFLY VALVES (GXG)	
	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg
4"	258	117	238	108	268	122	228	103	158	72	135	61
6"	388	176	358	162	404	183	374	170	224	102	193	88
8"	684	310	644	292	708	321	668	303	442	200	396	180
10"	881	400	829	376	909	420	875	397	552	250	494	224

475STR



Relief Valve discharge port:

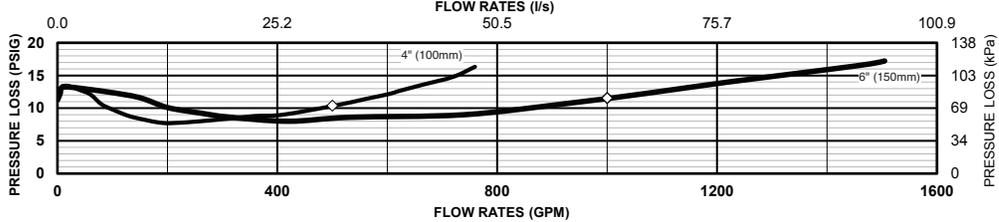
2 1/2" - 6" - 2.75 sq. in.
8" - 10" - 3.69 sq. in.

SIZE	DIMENSION (approximate)																				
	A		B WITH GATE VALVES		B WITH BUTTERFLY VALVES		C OS&Y OPEN		C OS&Y CLOSED		C NRS GATES		C WITH BUTTERFLY VALVES		D		E		E WITH BUTTERFLY VALVES		
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	
4" 475ST	100	18 5/16	465	22 1/4	565	19 7/8	505	22 1/2	572	9	229	14 1/2	368	9	229	4 3/4	119	18 3/8	467	18 3/8	467
4" 475STV	100	18 5/16	481	29 7/8	760	25 1/8	638	22 1/2	572	9	229	14 1/2	368	9	229	4 3/4	119	22 1/4	565	19 7/8	505
6" 475ST	150	18 11/16	475	27 7/8	708	24 3/4	630	30 1/2	775	10 1/2	267	18	457	10 1/4	260	6 1/8	158	22 3/8	570	22 3/8	570
6" 475STV	150	18 11/16	533	36 1/4	922	29 1/8	740	30 1/2	775	10 1/2	267	18	457	10 1/4	260	6 1/8	158	27 7/8	708	24 3/4	630
8" 475ST	200	29	737	34 7/8	886	29 1/8	740	37	940	12	305	22	560	12	305	8 7/8	223	30 5/8	780	30 5/8	780
8" 475STV	200	29	770	40 1/4	1022	51 1/4	1302	37	940	12	305	22	560	12	305	8 7/8	223	34 7/8	886	29 1/8	740
10" 475ST	250	29	737	38 3/4	984	35 3/4	910	45 5/8	1159	12	305	24 3/4	630	13	330	8 7/8	223	32 3/4	832	32 3/4	832
10" 475STV	250	29	770	45 7/8	1165	59 7/8	1521	45 5/8	1159	12	305	24 3/4	630	13	330	8 7/8	223	38 3/4	984	35 3/4	908

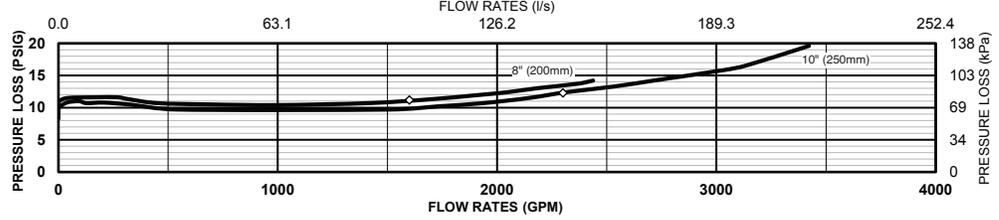
Flow Characteristics

◇ Rated Flow (established by approval agencies)

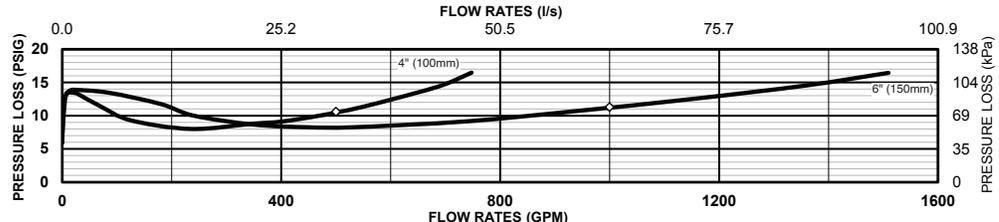
475ST & 475STV 4" & 6" (STANDARD & METRIC)



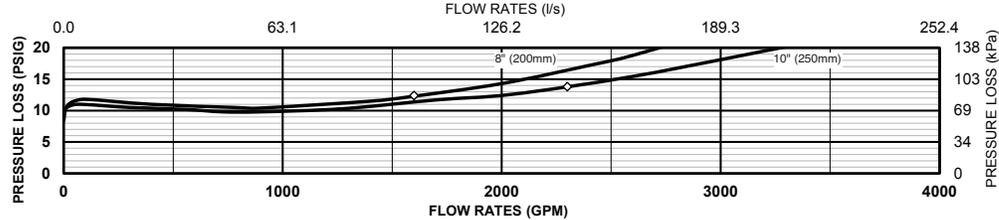
475ST & 475STV 8" & 10" (STANDARD & METRIC)



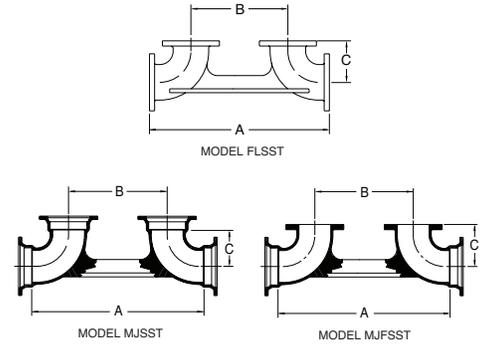
475STR & 475STRV 4" & 6" (STANDARD & METRIC)



475STR & 475STRV 8" & 10" (STANDARD & METRIC)



Valve Setters



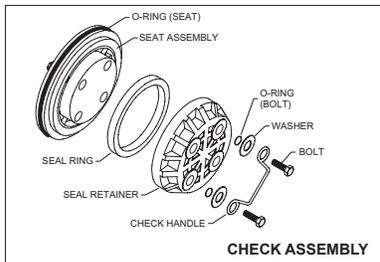
Dimensions & Weights (do not include pkg.)

MODEL	FOR MODEL	DIMENSIONS (approximate)						WEIGHT	
		A		B		C		lbs.	kg
4-FLSST	4" 400ST	27	690	14	356	6 1/2	165	76	34
4-MJFSST	4" 400ST	25	635	14	356	6 1/2	165	84	38
4-MJSST	4" 400ST	25	635	14	356	7 7/8	200	90	41
6-FLSST	6" 400ST	32 1/16	814	16	406	8	203	129	59
6-MJFSST	6" 400ST	30 1/16	764	16	406	8	203	135	61
6-MJSST	6" 400ST	30 1/16	764	16	406	7 1/16	179	140	64
8-FLSST	8" 400ST	36 1/2	927	18 1/2	470	9	229	195	88
8-MJFSST	8" 400ST	34 1/8	867	18 1/2	470	9	229	186	84
8-MJSST	8" 400ST	34 1/8	867	18 1/2	470	7 13/16	198	165	75
10-FLSST	10" 400ST	43	1092	21	533	11	279	248	112
10-MJFSST	10" 400ST	39	991	21	533	11	279	227	103
10-MJSST	10" 400ST	39	991	21	533	9	229	197	89

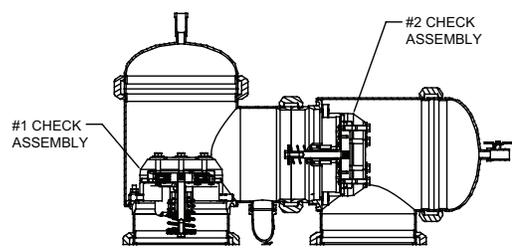
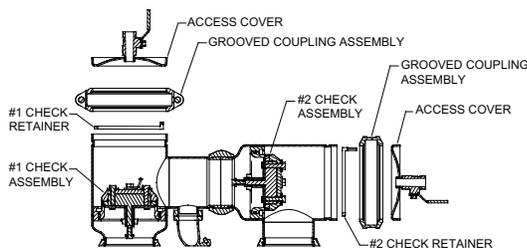
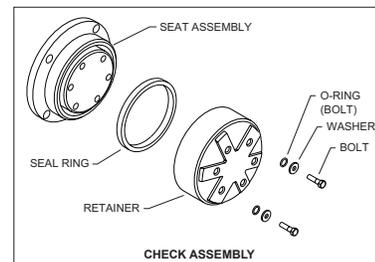
Specifications

The mechanical joint by flange and mechanical joint by mechanical joint valve setter shall meet AWWA C153-88 and the flange by flange valve setter shall meet ANSI B16.1. The assembly shall be FDA Approved fusion epoxy coated ductile iron (ASTM A536 Grade 4). The setter shall be a ZURN WILKINS Model FLSST, MJFSST or MJSST.

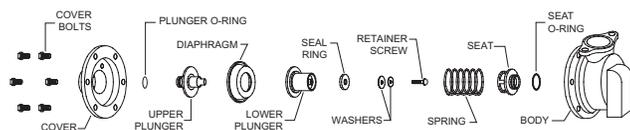
4" - 6"



8" - 10"



RELIEF VALVE ASSEMBLY



RELIEF VALVE ASSEMBLY

