

CASH VALVES CRYOGENIC VALVES AND CONTROLS

A16, A31, A31S, A31VR, A32, A32S SELECTION GUIDE

Example:	A16-	A	W	S	A	S	B	B	F	02	-	D	1
Model													
A16-	A16												
A31-	A31												
A31S	A31S												
A31V	A31VR												
Size													
Y	1/8" [A31, A31S]												
A	1/4" [A16, A31, A31S, A31VR, A32, A32S]												
B	3/8" [A16, A31, A31S, A32]												
Service													
W	Water/air												
C	Cryogenic (A32Z, A32E)												
F	Final line gas [A31]												
V	Vacuum service [A32VR]												
Body/connection style													
S	Side inlet/side outlet - straight thru [A16, A31, A32]												
R	Side inlet/side outlet - straight thru w/ right side gauge port [A31S]												
L	Side inlet/side outlet - straight thru w/ left side gauge port [A16, A31S]												
B	Side inlet/bottom outlet w/ straight thru gauge connection [A31VR]												
Spring chamber material													
A	Aluminum spring chamber [A16, A31, A31S, A32, A32S]												
Z	Brass spring chamber [A31, A32, A31VR only]												
C	Brass chrome plate spring chamber [A32 only]												
B	Brass bead blasted spring chamber [A32Z only]												
Spring chamber style													
S	Standard												
N	Non-vented												
P	Panel mount												
Diaphragm material													
B	Buna-N [A16, A31, A31S, A32S]												
L	Buna-N w/ Teflon liner [A31, A31S]												
G	316 SST [A32]												
N	Neoprene [A31, A31S]												
T	Neoprene w/ Teflon liner [A31, A31S]												
Z	Bronze [A32 only]												
R	EPR [A31VR, A32S]												
F	EPR w/ Teflon liner [A31VR]												
Seat material													
B	Buna-N [A16, A31, A31S, A32S]												
T	Teflon [A31, A32, A32S]												
V	Viton [A31, A31S]												
S	Silicone [A31VR]												
K	Kalrez [A31VR]												
Pressure screw style													
F	Fillister [A16, A31, A31S, A32, A32S]												
T	T-handle [A31, A31S]												
H	Hex [A31, A31S, A32]												
K	Knurled [A31VR]												
W	Handwheel plastic [A21]												
Variations													
01	Standard												
02	Balanced piston [A31, A31S]												
11	Standard variation w/ inlet screen [A31, A32]												
12	Balanced piston w/ inlet screen [A31]												
Design revision													
(-)	Original design												
Spring material													
D	Carbon steel (Industrial or final line gas service only)												
E	Stainless steel												
Spring range													
	Refer to table below												

STANDARD SPRING RANGES (psig)

Spring Material	Type	1	2	3	4	5	6	7	8	9
Steel	A16	2 - 30	10 - 50	25 - 90	80 - 120	100 - 180	----	----	----	----
	A31, A31S, A32	2 - 30	10 - 50	30 - 90	80 - 120	100 - 180	----	----	----	----
	A31VR (in/hg)	0 - 15	10 - 30	----	----	----	----	----	----	----
SST	A31	2 - 15	2 - 25	15 - 65	40 - 100	50 - 150	75 - 175	100 - 250	----	----
	A32	2 - 15	2 - 25	15 - 65	40 - 100	50 - 150	75 - 175	100 - 250	200 - 400	300 - 600
	A31S	2 - 15	----	----	----	----	----	----	----	----