

ALCO® Cross Reference

Temperature Controls



Product #	Range	Differential	Switch	Capillary	Bulb	Cover	Notes
ALCO TF115-S2 AE00	-20/60F	3/30F ADJ	SPDT	NONE	COILED	NEMA 1	
ALCO TSI-X2E 30/40	-20/60F	3/30F ADJ	SPDT	NONE	COILED	NEMA 1	
PENN A19BBC-2C	-30/100F	3/12F ADJ	SPDT	None	Coiled	NEMA 1	(1)
PENN A19BBC-6C	-30/100F	3/12F ADJ	SPDT	None	Coiled	NEMA 1	(1)(2)
ALCO TF115-S3 AE00	15/95F	3/30F ADJ	SPDT	NONE	COILED	NEMA 1	
ALCO TSI-X3E 64/48	15/95F	3/30F ADJ	SPDT	NONE	COILED	NEMA 1	
PENN A19BBC-2C	-30/100F	3/12F ADJ	SPDT	None	Coiled	NEMA 1	(1)
PENN A19BBC-6C	-30/100F	3/12F ADJ	SPDT	None	Coiled	NEMA 1	(1)(2)
ALCO TF115-S4 AF10	-20/95F	5/35F ADJ	SPDT	120"	3/8x2-3/4	NEMA 1	
ALCO TSI-X4F 32/41	-20/95F	5/35F ADJ	SPDT	120"	3/8x2-3/4	NEMA 1	
PENN A19ABC-24C	-30/100F	3/12F ADJ	SPDT	96"	3/8x4	NEMA 1	(1)
PENN A19ABC-36C	-30/100F	3/12F ADJ	SPDT	240"	3/8x4	NEMA 1	(1)

Notes:

- (1) Can use A419ABC-1, -30/212F range, 1/30F differential, SPDT, 78" lead, 0.25 x 2 PTC sensor, NEMA 1.
(2) Knob assembly/concealed adjustment packed separately.

Pressure Controls



Product #	Range	Differential	Switch	Capillary	Connection	Cover	Notes
ALCO FF115-S1 BAK	24"/42	3/30 ADJ	SPDT	36"	w/ Flare	NEMA 1	
ALCO PS1-X1K 7/15	24"/42	3/30 ADJ	SPDT	36"	w/ Flare	NEMA 1	
PENN P70AB-12C	12"/80	5/35 ADJ	Open LO	36"	w/ Flare	NEMA 1	
ALCO FF115-S3 BAK	15"/100	7/70 ADJ	SPDT	36"	w/ Flare	NEMA 1	
ALCO PS1-X3K 50/65	15"/100	7/70 ADJ	SPDT	36"	w/ Flare	NEMA 1	
PENN P70AB-2C	20"/100	7/50 ADJ	Open LO	36"	w/ Flare	NEMA 1	
ALCO FF115-S3 BAA	15"/100	7/70 ADJ	SPDT	None	External Flare	NEMA 1	
ALCO PS1-X3A 50/65	15"/100	7/70 ADJ	SPDT	None	External Flare	NEMA 1	
PENN P170AB-2C	20"/100	7/50 ADJ	Open LO	None	External Flare	NEMA 1	
ALCO FF115-S4 BAK	15/290	15/145 ADJ	SPDT	36"	w/ Flare	NEMA 1	
ALCO PS1-X4K 115/145	15/290	15/145 ADJ	SPDT	36"	w/ Flare	NEMA 1	
PENN P70AA-2C	0/150	12/40 ADJ	Open LO	36"	w/ Flare	NEMA 1	
PENN P70AA-3C	100/300	25/75 ADJ	Open LO	36"	w/ Flare	NEMA 1	
ALCO FF115-S5 BAK	90/450	30/220	SPDT	36"	w/ Flare	NEMA 1	
ALCO PS1-X5K 230/290	90/450	30/220	SPDT	36"	w/ Flare	NEMA 1	
PENN P70AA-118C	100/400	35/200	Open LO	36"	w/ Flare	NEMA 1	
PENN P70CA-3C	50/450	60/150	Open HI	36"	w/ Flare	NEMA 1	
ALCO FF115-S5 BAA	90/450	30/220	SPDT	None	External Flare	NEMA 1	
ALCO PS1-X5A 140/280	90/450	30/220	SPDT	None	External Flare	NEMA 1	
PENN P170AA-118C	100/400	35/200	Open LO	None	External Flare	NEMA 1	
PENN P170CA-3C	50/450	60/150	Open HI	None	External Flare	NEMA 1	
ALCO FF115-S5 BRK	90/450	Manual	SPDT	36"	w/ Flare	NEMA 1	
ALCO PS1-Y5K 230/290	90/450	Manual	SPDT	36"	w/ Flare	NEMA 1	
PENN P70DA-1C	50/450	Manual	Open HI	36"	w/ Flare	NEMA 1	
PENN P70KA-1C	50/450	Manual	M-Block	36"	w/ Flare	NEMA 1	(3)
ALCO FF115-S5 BRA	90/450	Manual	SPDT	None	External Flare	NEMA 1	
ALCO PS1-Y5A 330/390	90/450	Manual	SPDT	None	External Flare	NEMA 1	
PENN P170DA-1C	50/450	Manual	Open HI	None	External Flare	NEMA 1	

Notes:

- (3) Main opens HI, auxilliary opens LO (primarily used for alarm circuit).



BY JOHNSON
CONTROLS

ALCO® Cross Reference (Continued)

Dual Pressure Controls



Product #	LO Side	Differential	HI Side	Differential	Capillary	Connection	Notes
ALCO FF215-S9 BAUK	24"/42	3/30	90/450	60 FXD	48"	W/ Flare	
ALCO PS2-Y9K	24"/42	3/30	90/450	60 FXD	48"	W/ Flare	
PENN P70SA-1C	12"/80	5/35	100/500	60 FXD	36"	W/ Flare	
ALCO FF215-S7 BAUK	15"/100	7/70	90/450	60 FXD	48"	W/ Flare	
ALCO PS2-Y7K	15"/100	7/70	90/450	60 FXD	48"	W/ Flare	
PENN P70SA-1C	12"/80	5/35	100/500	60 FXD	36"	W/ Flare	
ALCO FF215-S7 BAUA	15"/100	7/70	90/450	60 FXD	None	External Flare	
ALCO PS2-Y7A	15"/100	7/70	90/450	60 FXD	None	External Flare	
PENN P170SA-1C	12"/80	5/35	100/500	60 FXD	None	External Flare	

Lube Oil Pressure Controls



Product #	Range	Reset	Delay	Capillary	Connection	Cover	Notes
ALCO FD113-ZUK	4/65 ADJ	Manual	20-150 secs.	36"	W/ Flare	NEMA 1	
PENN P28AA-**C	8/70 ADJ	Manual	Note (4)	36"	W/ Flare	NEMA 1	(4)
PENN P45NCA-12C	9.0 FXD	Manual	120 secs.	36"	W/ Flare	NEMA 1	(5)
PENN P45NCA-82C	6.5 FXD	Manual	45 secs.	36"	W/ Flare	NEMA 1	(5)
ALCO FD113-ZU	4/65 ADJ	Manual	20-150 secs.	None	External Flare	NEMA 1	
PENN P128AA-**C	8/70 ADJ	Manual	Note (4)	None	External Flare	NEMA 1	(4)
PENN P145NCA-12C	9.0 FXD	Manual	120 secs.	None	External Flare	NEMA 1	(5)
PENN P145NCA-82C	6.5 FXD	Manual	45 secs.	None	External Flare	NEMA 1	(5)

Notes:

(4) Choose correct control below based on timing required and desired pressure connection:

P28AA-1	8/70#	90 Secs.	36"	W/ Flare
P28AA-2	8/70#	60 Secs.	36"	W/ Flare
P28AA-17	8/70#	120 Secs.	36"	W/ Flare
P28AA-18	8/70#	45 Secs.	36"	W/ Flare
P128AA-1	8/70#	90 Secs.	None	External Flare
P128AA-2	8/70#	60 Secs.	None	External Flare
P128AA-17	8/70#	120 Secs.	None	External Flare

(5) Verify timing specifications.