AP TECH REPAIR KITS

Repair instructions can be found here: SMC Repair Kit

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VALVE WETTED PATH, 3 DIAPHRAGM KITS

- All wetted path repair kits are cleaned and packaged in ISO 5 Cleanroom

AP3A | S - WP | NF - KT

Code	PRODUCT SERIES
AP3A	3510, 3540, 3542, 3550, 3580, 3585, 3600, 3625, 3650, 3652, 3657, 3659, 3675
AP3C	3113, 3157
AP3H *1	3150
AP3J	3650
AP4A	4510, 4540, 4542, 4550, 4580, 4600, 4625, 4652, 4657, 4659
AP4C	4141, 4157
AP4D	4150
AP4E	4650

*1) AP3H SERIES INCLUDES LABEL

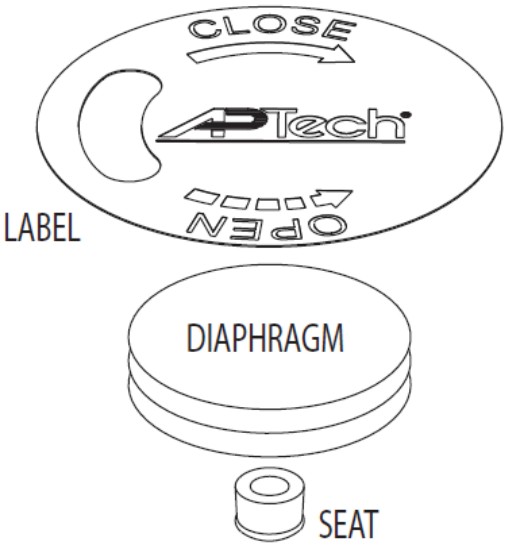
CODE	SEAT MATERIAL
NF	PCTFE (Standard)
KN	PVDF *2
PF	PFA*2
PK	PEEK *2
VS	POLYIMIDE *2

*2) Not available with H Material

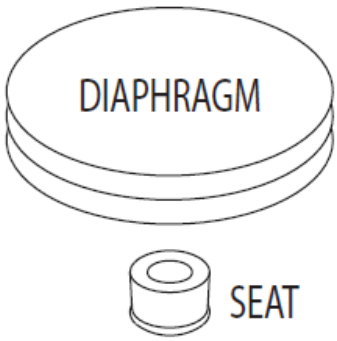
MATERIAL		
CODE	DIAPHRAGM	SEAT INSERT
S	NI-CO ALLOY	316L
H *3	NI-CO ALLOY	NI-CR-MO ALLOY

*3) AP3C AND AP3H ONLY

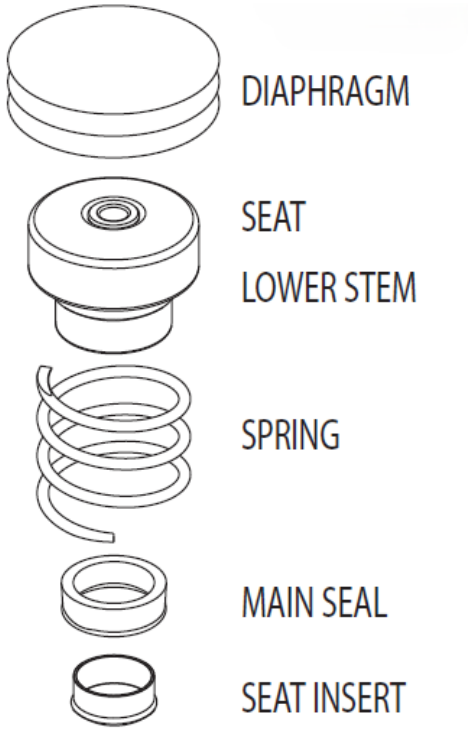
SERIES:
AP3J/ AP4D/ AP4E



SERIES:
AP3A / AP4A / AP4C



SERIES: AP3C/ AP3H



VALVE WETTED PATH, 5 DIAPHRAGM KITS

- All wetted path repair kits are cleaned and packaged in ISO 5 Cleanroom

AP3B **S** - **WP** **NF** - **KT**

PRODUCT SERIES	
AP3B	3004, 3080, 3084, 3604, 3624, 3627
AP3D	3100, 3125, 3130
AP3E	3002
AP3G	3102
AP3K	3000
AP4B	4000

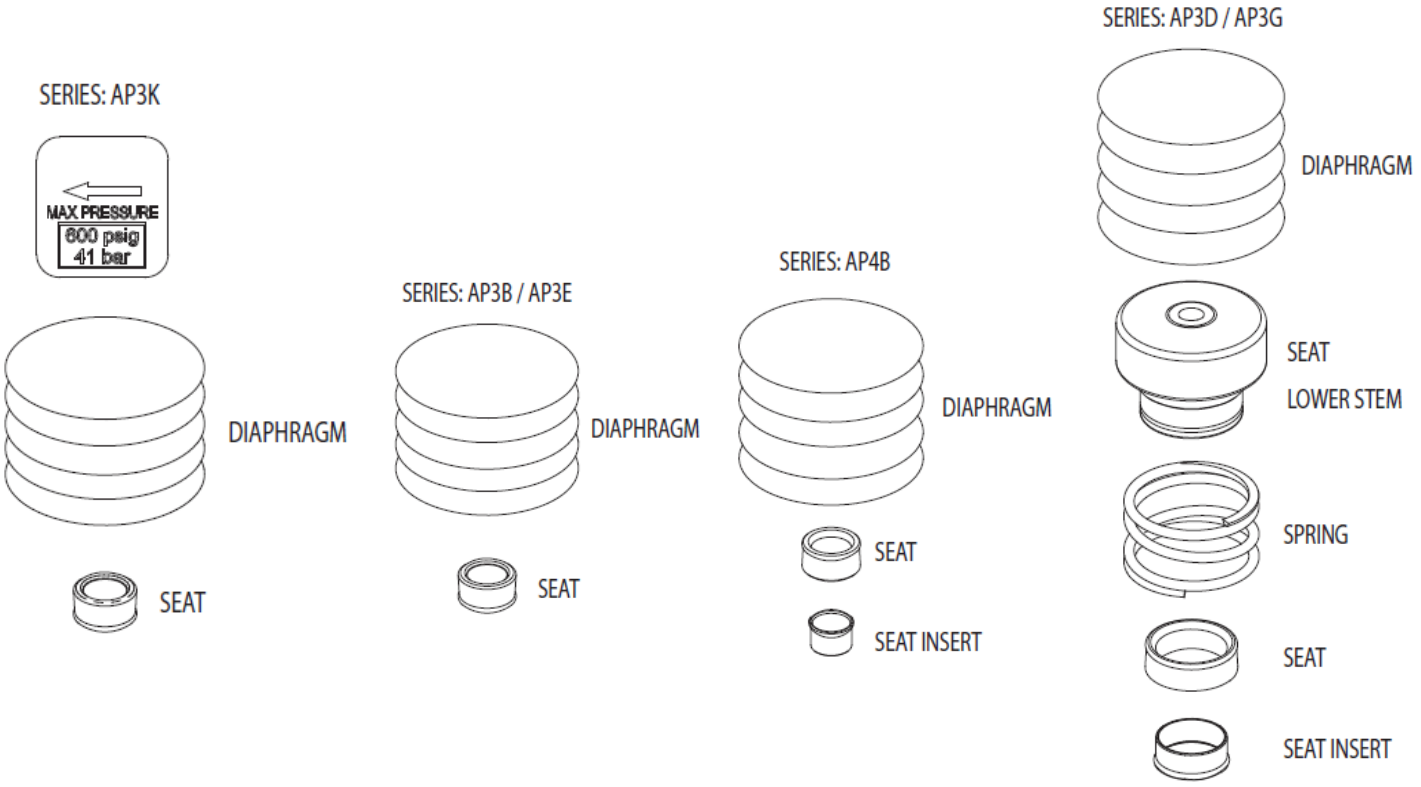
SEAT MATERIAL	
NF	PCTFE (Standard)
PF	PFA *1
PK	PEEK *2
VS	POLYIMIDE *1

*1) Not available with H material

*2) Not available for 3000, 3002, 3080

MATERIAL		
	DIAPHRAGM	**SEAT INSERT**
S	NI-CO ALLOY	316L
H	NI-CO ALLOY	NI-CR-MO ALLOY*3

*3) AP3D / AP3G / AP4B ONLY



VALVE WETTED PATH, 6 DIAPHRAGM KITS

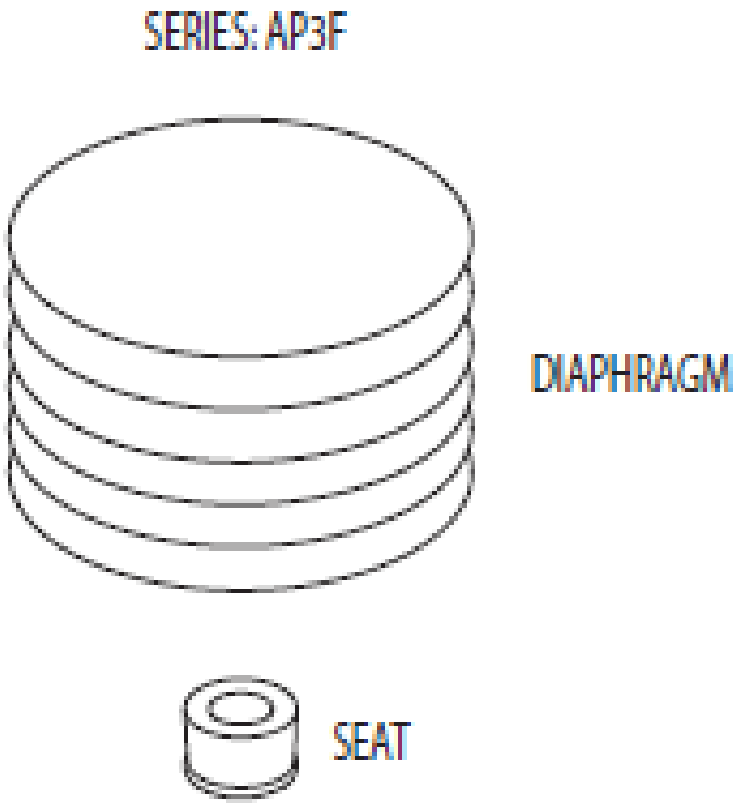
- All wetted path repair kits are cleaned and packaged in ISO 5 Cleanroom

AP3F **S** - **WP** **PK** - **KT**

PRODUCT SERIES	
AP3F	3007

SEAT MATERIAL	
PK	PEEK
VS	POLYIMIDE

MATERIAL		
	DIAPHRAGM	**SEAT INSERT**
S	NI-CO ALLOY	316L



VALVE WETTED PATH, 3800/3900 REPAIR KITS

- All wetted path repair kits are cleaned and packaged in ISO 5 Cleanroom

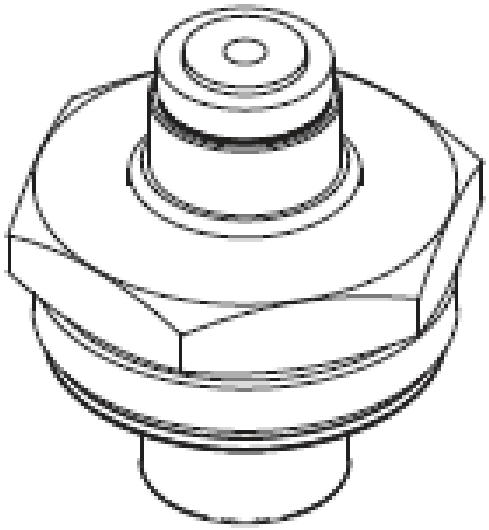
AP38 S - WP NF - KT

PRODUCT SERIES	
AP38	3800
AP39	3900

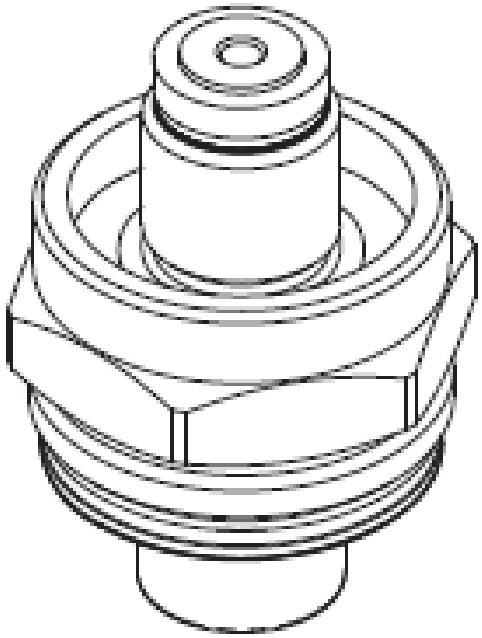
MATERIAL		
	DIAPHRAGM	**SEAT INSERT**
S	NI-CO ALLOY	316L

SEAT MATERIAL	
NF	PCTFE
PK	PEEK
VS	POLYIMIDE

SERIES: AP38



SERIES: AP39



VALVE WETTED PATH, BULK SEATS

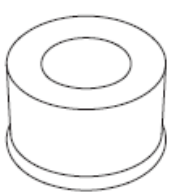
- All wetted path repair kits are cleaned and packaged in ISO 5 Cleanroom

AP3 – SNF - KT

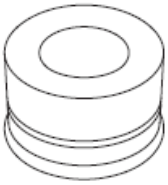
PRODUCT SERIES	
AP3	AP/AK/AZ - 1/4” DIAPHRAGM VALVES
AP4	AP/AK/AZ - 1/8” DIAPHRAGM VALVES

SEAT MATERIAL	
SNF	STANDARD (PCTFE)
SVS	FOR VS (POLYIMIDE)
SPF	FOR PF (PFA)

***EACH KIT CONTAINS 50 PIECES**



AP3-SNF, AP3-SVS



AP3-SPF



AP4-SNF, AP4-SVS



AP4-SPF

VALVE WETTED PATH, BULK DIAPHRAGM

- All wetted path repair kits are cleaned and packaged in ISO 5 Cleanroom

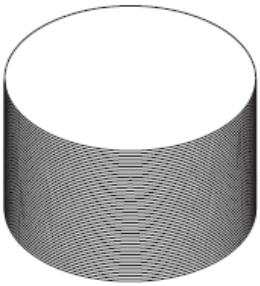
AP3 – DED - KT

	PRODUCT SERIES
AP3	AP/AZ/AK3/AK4

SEAT MATERIAL	
DED	NI-CO-ALLOY
DES	FOR H1/H3
DEV	FOR H1/H3, VENTED

***EACH KIT CONTAINS 50 PIECES**

SERIES: AP3



PNEUMATIC ACTUATOR – AP37 VALVES ONLY

- All wetted path repair kits are cleaned and packaged in ISO 5 Cleanroom
  * Diaphragm is integral to repair kit

AP3700 – HDNF – IS – KT

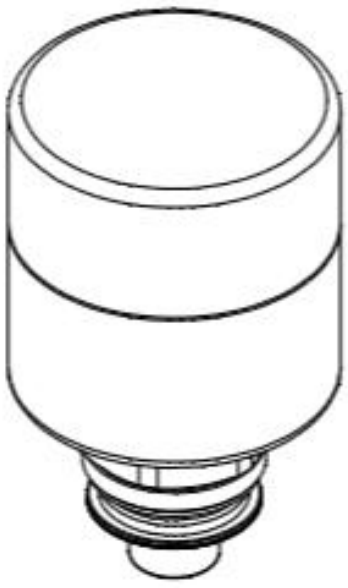
SERIES
AP
AZ

SENSOR	
NIL	NO SENSOR PORT
IS	SENSOR READY

SEAT MATERIAL	
NF	PCTFE
VS	POLYMIDE

PRODUCT SERIES	STATUS
3700	NORMALLY CLOSED (N.C.)
3708	NORMALLY OPEN (N.O.)

DIAPHRAGM MATERIAL	
NIL	316L SS
HD	Ni-Cr-Mo Alloy



KNOB ASSEMBLY – VALVES ONLY

- Wetted Path replacement is recommended when servicing the knob

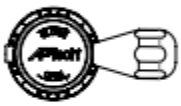
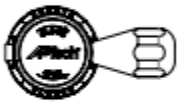
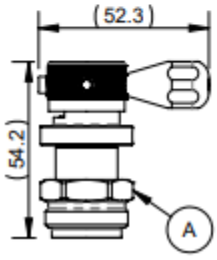
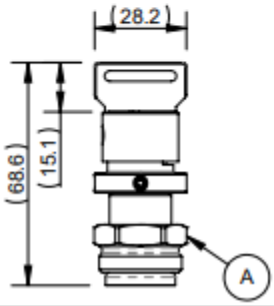
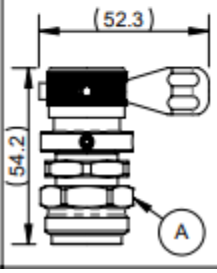
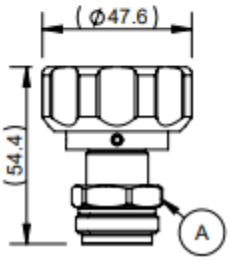
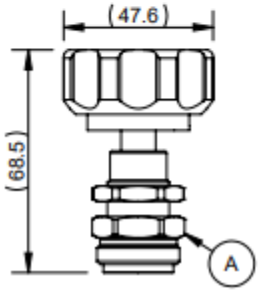
AP3– B –MC- BK- KT

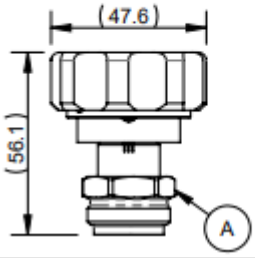
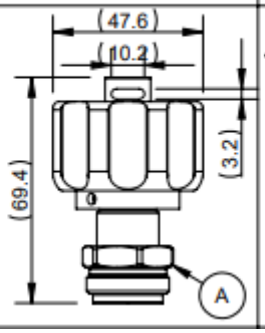
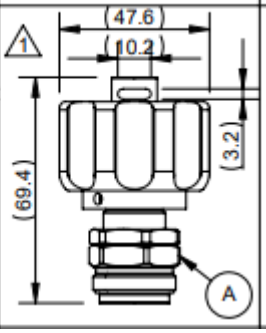
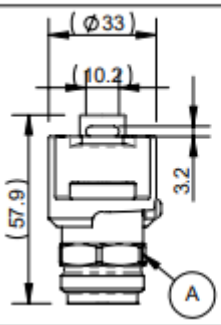
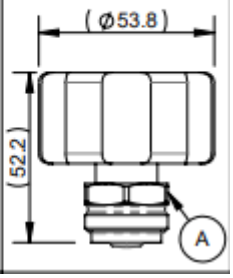
PRODUCT SERIES	
AP3	AP/AZ/AK3 AP/AZ/AK4

CODE	KNOB COLOR
BL	BLUE*1
BK	BLACK
GY	CLEAR ANODIZE/GREY
GR	GREEN
RD	RED
WT	WHITE
YL	YELLOW

*1) OPTION "K" IS ONLY AVAILABLE IN BK, GY, WT
*2) OPTION "A" AND "C" HANDLES ARE ONLY AVALIABLE IN BK, GR, RD

CODE	SERIES	PARENT OPTION	KNOB TYPE
A	3225, 3625, 4625	--	¼ TURN LEVER KNOB
B	3625	FA	¼ TURN ROUND W/ RAISED RECTANGLE SECTION AND OPEN/CLOSE INDICATION WINDOW
C	3625, 4625	P	PANEL MOUNT, ¼ TURN LEVER KNOB
D	3150, 3650, 4650	--	¼ TURN ROUND KNOB W/ OPEN/CLOSE INDICATOR WINDOW
E	3650, 4650	P	PANEL MOUNT, ¼ TURN ROUND KNOB W/ OPEN/CLOSE INDICATOR WINDOW
F	3150, 3650, 4650	ISH	SENSOR READY, ¼ TURN ROUND KNOB W/ OPEN/CLOSE INDIACTOR WINDOW
G	3157, 3657, 4657	--	PULL TWIST KNOB W/ LOTO
H	3157, 3657, 4657	P	PANEL MOUNT, PULL TWIST KNOB W/ LOTO
J	3659, 4659	--	PULL TWIST KNOB W/ LOTO
K	3260, 3262, 3600, 4600	--	MULTI TURN ROUND KNOB

CODE	A	B	C	D	E
SERIES	3225,3625,4625	3625 FA	3625,4625 P	3150,3650,4650	3650,4650 P
KNOB	1/4 turn lever knob	1/4 turn round w/ raised rectangle section and open/close indication window	panel mount, 1/4 turn lever knob	1/4 turn round knob w/ open/close indicator window	PANEL MOUNT, 1/4 turn round knob w/ open/close indicator window
TOP VIEW					
FRONT VIEW					

CODE	F	G	H	J	K
SERIES	3150,3650,4650	3157,3657,4657	3157,3657,4657 P	3659,4659	3260, 3262, 3600, 4600
KNOB	Sensor Ready, 1/4 turn round knob w/ open/close indicator window	pull twist knob w/ loto	panel mount, pull twist knob w/ loto	pull twist knob w/ loto	MULTI TURN ROUND KNOB
TOP VIEW					
FRONT VIEW					

PNEUMATIC CAP ASSEMBLY – VALVES ONLY

- Wetted Path replacement is recommended when servicing the pneumatic cap

AP3– C – PC – GY– IS - KT

SERIES
AP/AZ/AK3

CODE	OPTION
Nil	WITHOUT OPTION
IS *2)	SENSOR READY

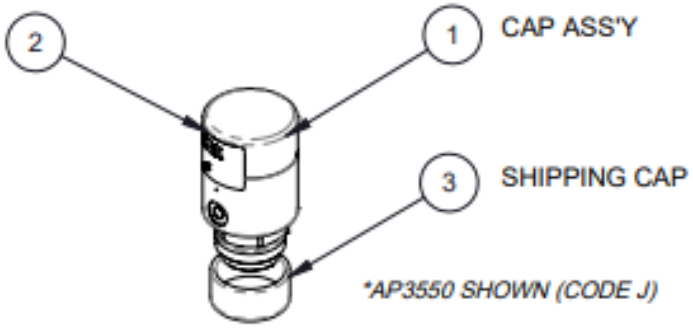
***2)** SENSOR OPTION NOT AVAILABLE WITH B, G, H

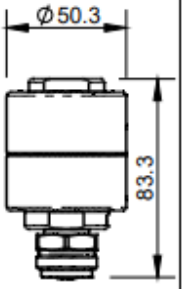
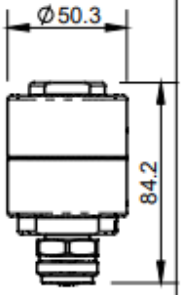
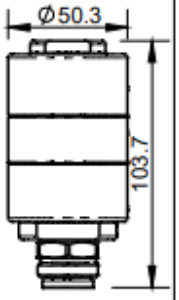
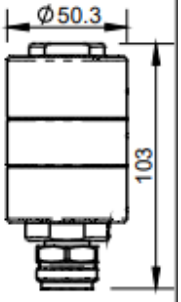
CODE	SERIES	STATUS
A	3000, 3002, 4000	N.C.
B	3004	N.C.
C	3007	N.C.
D	3080, 3084	N.O.
E	3113	N.C.
F	3130	N.C.
G	3510, 4510	N.C.
H	3540, 4540	N.C.
J	3550, 4550	N.C.

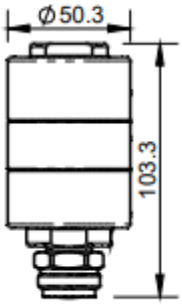
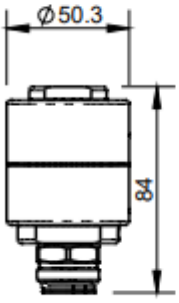
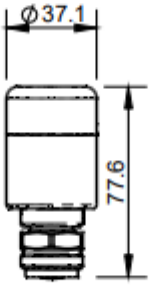
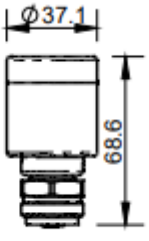
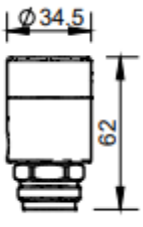
1

* ” GY” IS THE STANDARD COLOR FOR THE ACTUATOR SERIES, ANY ACTUATOR WITH (CODES G, H) CAN HAVE A SPECIAL REQUEST FOR A COLOR CHANGE

LABEL



CODE	A	B	C	D
SERIES	3000,3002,4000	3004	3007	3080, 3084 (1)
STATUS	NORMALLY CLOSED	NORMALLY CLOSED	NORMALLY CLOSED	NORMALLY OPEN
IS VERSION	●	—	●	●
TOP VIEW				
FRONT VIEW				

CODE	E	F	G	H	J
SERIES	3113	3130	3510, 4510	3540, 4540	3550, 4550
STATUS	NORMALLY CLOSED	NORMALLY CLOSED	NORMALLY CLOSED	NORMALLY CLOSED	NORMALLY CLOSED
IS VERSION	●	●	—	—	—
TOP VIEW					
FRONT VIEW					

PNEUMATIC ACTUATOR ASSEMBLY – VALVES ONLY

AP3 - C – PN – GY – IS - KT

SERIES
AP/AZ/AK

CODE	SERIES	STATUS
A	3000, 3002, 4000	N.C.
B	3004	N.C.
C	3007	N.C.
D	3080, 3084	N.O.
E	3113	N.C.
F	3130	N.C.
G	3510, 4510	N.C.
H	3540, 4540	N.C.
J	3550, 4550	N.C.

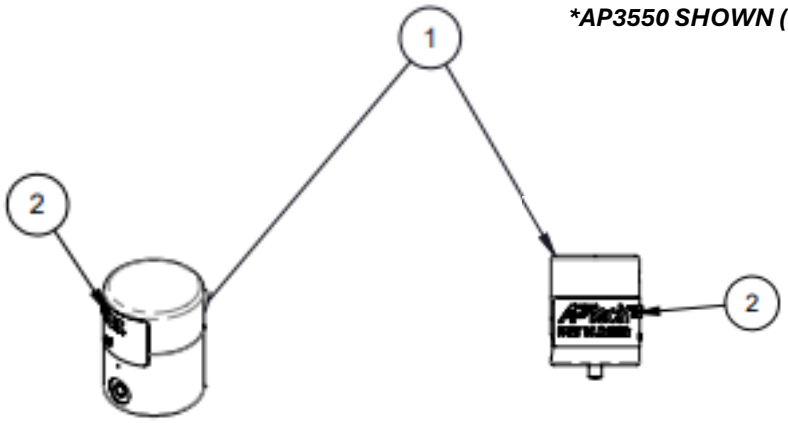
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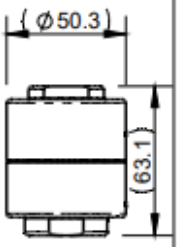
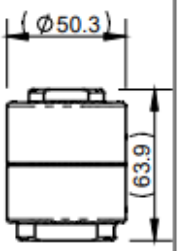
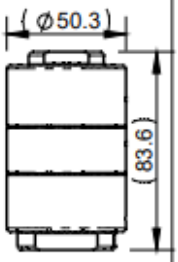
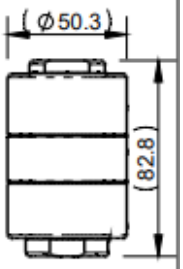
CODE	OPTION
Nil	WITHOUT OPTION
IS *2)	SENSOR READY

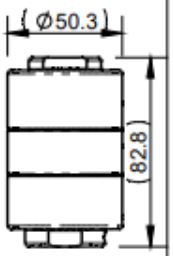
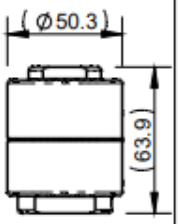
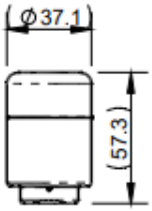
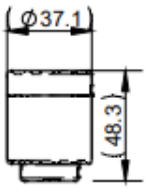
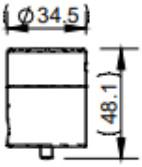
*2) SENSOR OPTION NOT AVAILABLE WITH B, G, H

*"GY" IS THE STANDARD COLOR FOR THE ACTUATOR SERIES,
ANY ACTUATOR WITH (CODES G, H) CAN HAVE
A SPECIAL REQUEST FOR A COLOR CHANGE

AP3550 SHOWN (CODE J)



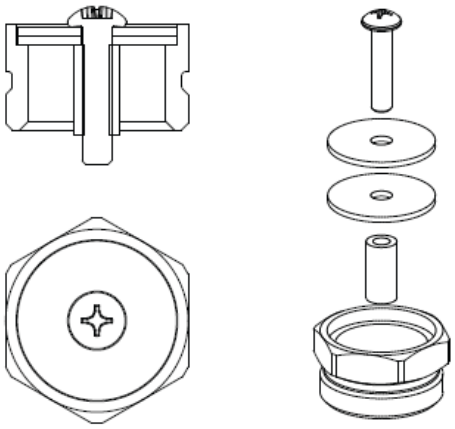
CODE	A	B	C	D
SERIES	3000,3002,4000	3004	3007	3080, 3084 (1)
STATUS	NORMALLY CLOSED	NORMALLY CLOSED	NORMALLY CLOSED	NORMALLY OPEN
IS COMPATIBLE	•	–	•	•
TOP VIEW				
FRONT VIEW				

CODE	E	F	G	H	J
SERIES	3113	3130	3510, 4510	3540, 4540	3550, 4550
STATUS	NORMALLY CLOSED	NORMALLY CLOSED	NORMALLY CLOSED	NORMALLY CLOSED	NORMALLY CLOSED
IS COMPATIBLE	•	•	–	–	–
TOP VIEW					
FRONT VIEW					

TOOLS

ALL TOOLS ARE MADE WITH CLEANROOM APPROVED MATERIALS

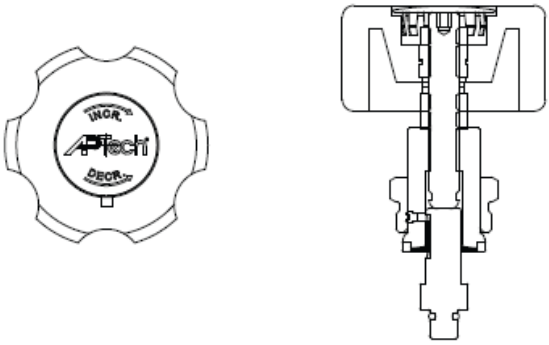
Part Number	Description
VS30-RTEXR-KT	SEAT EXTRACTOR TOOL 3
VS30-RTINS-KT	SEAT INSERTION TOOL
VS31-RTINS-KT	SEAT INSERTION TOOL, AP31
VS31-RTEXR-KT	SEAT EXTRACTOR TOOL, AP31
VS45-RTEXR-KT	SEAT EXTRACTOR TOOL 4
VS45-RTINS-KT	SEAT INSERTION TOOL 4



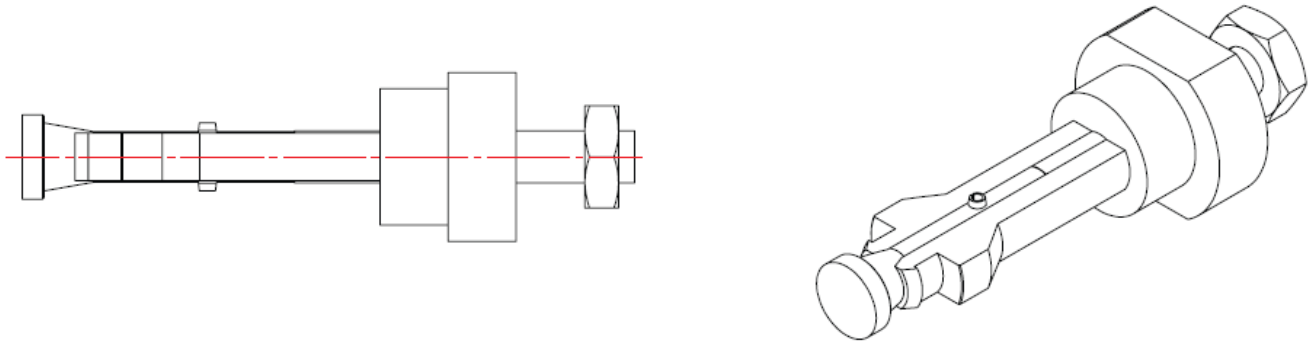
VS30-RTEXR-KT



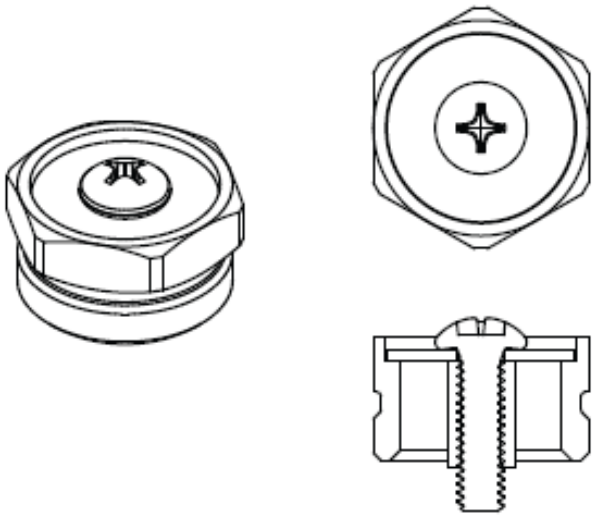
VS30-RTINS-KT



VS31-RTINS-KT



VS31-RTEXR-KT



VS45-RTEXR-KT



VS45-RTINS-KT