

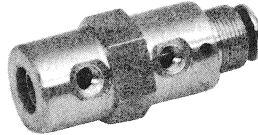
Humphrey TAC-TAC²-TAC³ Air Valves

Model TAC, TAC², and TAC³ air valves may be operated by pilot or mechanical operators or manually operated by their push-buttons. Each push-button's shoulder bottoms-out on the valve body to prevent overstroke and valve damage. Operators adapt directly to the threaded button end. The push button itself is constructed of work hardening stainless steel. Appropriate locknuts and lockwashers are furnished. Port sizes are as follows: TAC, #10-32; TAC², 1/8"; TAC³, 1/4".



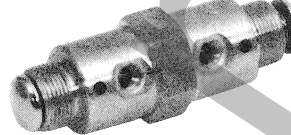
2P

Model 2P is a 2-way, normally closed, spring-return valve that can trap downstream pressure if the supply pressure is maintained and not exceeded. Weight: 1.25 oz. (35.4 gms.).



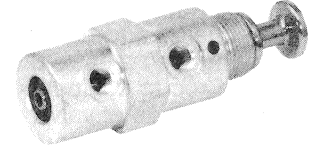
4P

Model 4P is a 4-way, normally closed/normally open valve with spring-return. IN and CYL port threads are #10-32 female. EXH ports are not threaded. Weight: 2.8 oz. (79.4 gms.).



4PP

Model 4PP is a detented 4-way, normally closed/normally open valve with two push-buttons. IN and CYL port threads are #10-32 female, EXH ports are not threaded. Weight: 2.75 oz. (78 gms.).



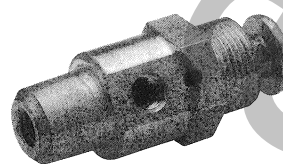
4PPX

Model 4PPX is a detented version of 4P. It features a push-pull actuator with positive stop. Actuator has a short stroke of 0.093 inch. Weight: 2.8 oz. (67.3 gms.).



3P

Model 3P is a 3-way, normally closed, spring-return valve. IN and CYL port threads are #10-32 female. EXH port is not threaded. Alternate IN port is 1/4" NPT male. Weight: 1.25 oz. (35.4 gm.).



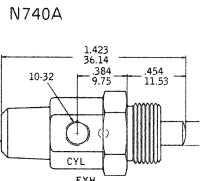
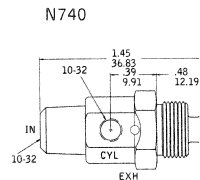
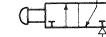
N740

Model N740 is a 3-way, normally closed, spring-return valve. This valve is used in low pressure, low actuation applications. IN and CYL port threads are #10-32 female. EXH ports are not threaded. Pressure range is 0-15 PSIG. Air flow to atmosphere at 15 PSIG is 1.5 CFM. Actuation force: 6 oz. Weight: 0.96 oz. (30.0 gms.).

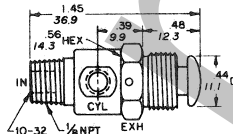


N740A

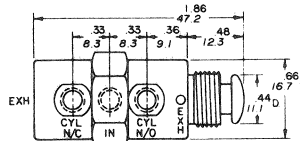
Model N740A is a 3-way, normally closed, spring-return valve. This valve is used in low pressure, low actuation applications. Mechanical operator consists of a shaft with spherical radius on the end. IN and CYL port threads are #10-32 female. EXH ports are not threaded. Pressure range is 0-15 PSIG. Air flow to atmosphere at 15 PSIG is 1.5 CFM. Actuation force: 6 oz. Weight: 0.96 oz. (30.0 gms.).



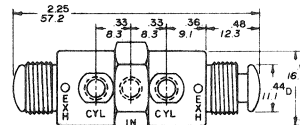
2P/3P



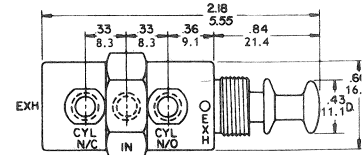
4P



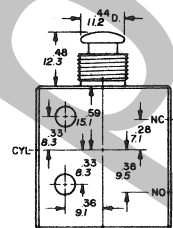
4PP



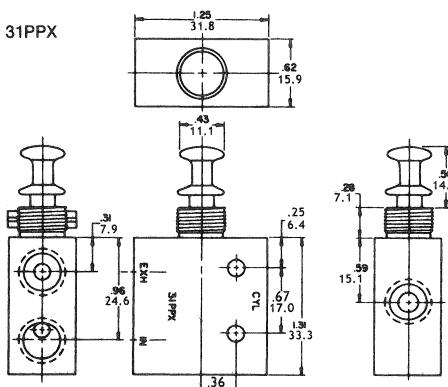
4PPX



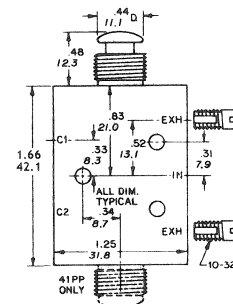
31P



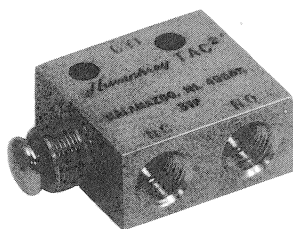
31PPX



41P/41PP

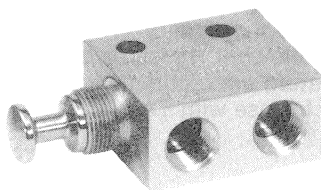
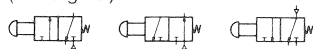


NOTE:
MOUNTING
THREAD IS
15/32 - 32 x 9/32



31P

Model 31P is a multi-purpose valve with spring-return. Pressure may be applied at any port. The 31P can be used as a 3-way, normally closed/normally open valve, as a diverter or dual-pressure valve, or as a 2-way valve with the unused NC or NO port plugged. The 31P can be mounted with two #10 screws or panel mounted with body threads. Dimensions: 1.31"H x 1.25"W x 0.63"D. Weight: 4.25 oz. (120.5 gms.).



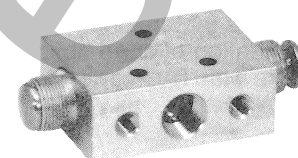
31PPX

Model 31PPX is a detented version of 31P. It features a push-pull actuator with positive stop. Actuator has a short stroke of 0.093 inch. Weight: 4.25 oz. (120.5 gms.)



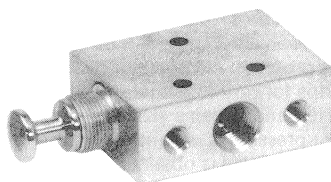
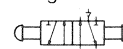
41P

Model 41P is a 4-way, normally closed/normally open valve with spring-return. IN and CYL port threads are 1/8" NPT. Exhaust ports are #10-32 female. The 41P is supplied with two #97-21 metering screws for exhaust port flow controls. The 41P can be mounted with three #6 screws or with body threads for bracket or panel mounting. Dimensions: 1.65"H x 1.25"W x 0.63"D. Weight: 5.25 oz. (148.8 gms.).



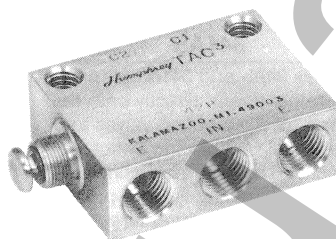
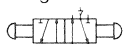
41PP

Model 41PP is a detented 4-way, normally closed/normally open valve with two push-buttons. IN and CYL port threads are 1/8" NPT. Exhaust ports are #10-32 female. The 41PP valve is supplied with two #97-21 metering screws for exhaust port flow controls. It can be mounted with three #6 screws or with body threads for bracket or panel mounting. Dimensions: 1.65"H x 1.25"W x 0.63"D. Weight: 5.63 oz. (159.5 gms.).



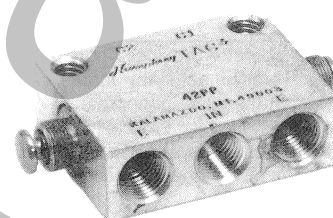
41PPX

Model 41PPX is a detented version of 41P. It features a push-pull actuator with positive stop. Actuator has a short stroke at 0.093 inch. Weight: 5.40 oz. (153.1 gms.)



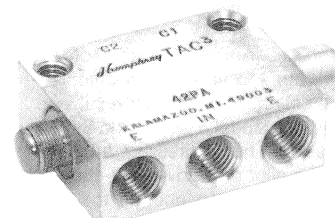
42P

Model 42P is a 4-way, 5 port, normally closed/normally open, single push-button, spring-return valve. All ports are 1/4" pipe. This valve can be mounted with two 3/8"-18 UNC screws or with body threads for bracket or panel mounting. Dimensions: 2.25"H x 1.75"W x 0.75"D. Weight 11 oz. (311.9 gms.)



42PP

Model 42PP is a 4-way, 5 port, normally closed/normally open, double push-button, detented valve. All ports are 1/4" pipe. This valve can be mounted with two 3/8"-18 UNC screws or with body threads for bracket or panel mounting. Dimensions: 2.25"H x 1.75"W x 0.75"D. Weight 11 oz. (311.9 gms.)



42PA

Model 42PA is a 4-way, 5 port, normally closed/normally open, detented valve. One side has push-button; other side has 1/8" air-pilot port. Body ports are 1/4" pipe. This valve can be mounted with two 3/8"-18 UNC screws or with body threads for bracket or panel mounting. Dimensions: 2.25"H x 1.75"W x 0.75"D. Weight 11 oz. (311.9 gms.) Dimensions of air pilot shown in the TAC³ Air-Piloted Valves section.

Specifications

MEDIA:

Compressed Air (Consult factory for others)

PRESSURE RANGE:

0 to 125 psig (0 to 8.6 bars)

TEMPERATURE RANGE:

-20 to 180°F (-28.9 to 82.2°C)

OPERATING SPEEDS:

TAC & TAC³: to 900 CPM

TAC³: to 600 CPM

MATERIALS:

Brass, Stainless Steel, Delrin, Buna N

LUBRICATION

Recommended

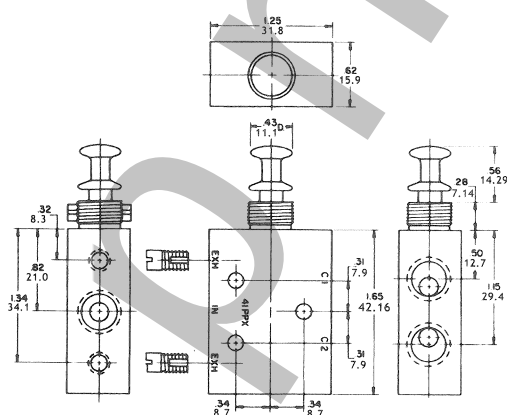
FILTRATION

Recommended, 40 Microns Minimum

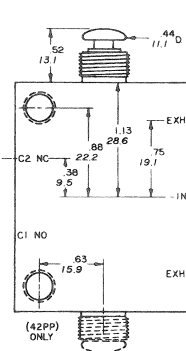
Air Flow to Atmosphere

MODEL	25 PSIG CFM	(1.7 BARS) LPM	125 PSIG CFM	(8.6 BARS) LPM
2P, 3P	0.2	6.8	7.0	198.1
4P, 4PP, 4PPX	0.6	16.9	9.0	254.7
31P, 41P, 41PP, 41PPX	4.0	113.2	20.0	566.0
42P, 42PP, M42P, M42PA, M42PP	10.0	283.0	39.0	1103.7

41PPX



42P/42PP



NOTE:
MOUNTING
THREAD IS
15/32 - 32 x 9/32

Humphrey TAC Air Valves

TAC & TAC²

#10-32 and 1/8-inch ports 2-way, 3-way

VALVES

	2 WAY	3 WAY	NORM. CLOSED	NORM. OPEN	DETENTED	SPRING RETURN	MOUNT. BASE (see access.)	PANEL MOUNT. NUTS	FKM** Seals	BRASS BODY	BOTTOM INLET
OPTION CODE											VAI
MODEL											
2P	STD	NA	STD	NA	NA	STD	OS	STD	Specify	STD	STD
2V	STD	NA	NA	NA	STD	NA	OS	STD	Specify	STD	STD
2VR	STD	NA	STD	NA	NA	STD	OS	STD	Specify	STD	STD
3P	NA	STD	STD	NA	NA	STD	OS	STD	Specify	STD	STD
3V	NA	STD	NA	NA	STD	NA	OS	STD	Specify	STD	STD
3VR	NA	STD	STD	NA	NA	STD	OS	STD	Specify	STD	STD
31P	*	STD	STD	*	NA	STD	OS	STD	Specify	STD	NA
31PPX	*	STD	NA	NA	STD	NA	OS	STD	Specify	STD	NA
31V	*	STD	STD	NA	STD	NA	OS	STD	Specify	STD	NA
31VR	*	STD	STD	*	NA	STD	OS	STD	Specify	STD	NA

*Plug exhaust port on 31 series for 2-way. For Normally Open, plumb Supply to appropriate port.

**Fluoroelastomer

Order example: 2P

OS indicates part must be ordered separately.

REMEMBER: Option Codes marked STD, NA are not used as part of the Model Number when ordering.

TAC & TAC²

#10-32 and 1/8-inch ports 4-way

VALVES

	NORM. CLSD/ NORM. OPEN 2 POS	NORM. CLSD/ NORM. OPEN 3 POS/OPN CTR	DETENTED	SPRING RETURN	3 DETENTED POSITIONS	3 SPRING RETURN POSITIONS	DETENT SPRING CTR'D DETENT	MOUNT. BASE (see access.)	PANEL MOUNT. NUTS	BRASS BODY	FKM* Seals	BOTTOM INLET
OPTION CODE												VAI
MODEL												
4P	STD	NA	NA	STD	NA	NA	NA	OS	STD	STD	Specify	NA
4PP	STD	NA	STD	NA	NA	NA	NA	OS	STD	STD	Specify	NA
4PPX	STD	NA	STD	NA	NA	NA	NA	OS	STD	STD	Specify	NA
4V	STD	NA	STD	NA	NA	NA	NA	OS	STD	STD	Specify	NA
41P	STD	NA	NA	STD	NA	NA	NA	OS	STD	STD	Specify	NA
41PP	STD	NA	STD	NA	NA	NA	NA	OS	STD	STD	Specify	NA
41PPX	STD	NA	STD	NA	NA	NA	NA	OS	STD	STD	Specify	NA
41V	STD	NA	STD	NA	NA	NA	NA	OS	STD	STD	Specify	NA
41TD3	NA	STD	NA	NA	STD	NA	NA	OS	STD	STD	Specify	STD
41TS3	NA	STD	NA	NA	NA	STD	NA	OS	STD	STD	Specify	STD
41TDS3	NA	STD	NA	NA	NA	NA	STD	OS	STD	STD	Specify	STD
41RD3	NA	STD	NA	NA	STD	NA	NA	OS	NA	STD	Specify	STD
41RS3	NA	STD	NA	NA	NA	STD	NA	OS	NA	STD	Specify	STD
41RDS3	NA	STD	NA	NA	NA	NA	STD	OS	NA	STD	Specify	STD

For 42 Series TAC³ Valves, see TAC³ Air Piloted and Push-Button Valves, p. 12 of Humphrey Price List.

*Fluoroelastomer

Order example: 41P-VAI

OS indicates part must be ordered separately.

REMEMBER: Option Codes marked STD, NA are not used as part of the Model Number when ordering.

AIR/MANUAL/MECHANICAL OPERATORS

OPERATORS

Air Pilot Operators

	Fluoroelastomer Seals
OPTION CODE	VAI
MODEL	
34A	NA
34AS	Specify
34AR	Specify
34ASR	NA
341A	NA
341AS	Specify
341AR	Specify
341ASR	NA

Order example: 341AR-VAI

NOTE: Valves and Accessories are shipped detached, ready to be mounted according to specific application requirements.
REMEMBER: Option Codes marked STD, NA are not used as part of the Model Number when ordering.

Manual & Mechanical Operators

MODEL
34B
34C
34CW
34CH
28-60A
34F
34T

Order example: 34F