

PIERCING VALVES SACV SPLIT AIR CONDITIONER VALVES

SACV2-04	2 WAY VALVE: 1/4" solder inlet x 1/4" flare outlet
SACV3-04	3 WAY VALVE: 1/4" solder inlet x 1/4" flare outlet with 1/4" access valve
SACV3-06	3 WAY VALVE: 3/8" solder inlet x 3/8" flare outlet with 1/4" access valve
SACV3-08	3 WAY VALVE: 1/2" solder inlet x 1/2" flare outlet with 1/4" access valve
SACV3-10	3 WAY VALVE: 5/8" solder inlet x 5/8" flare outlet with 1/4" access valve
SACV3-12	3 WAY VALVE: 3/4" solder inlet x 3/4" flare outlet with 1/4" access valve

PART NUMBER	A	B	Ø CON.	D	E	F	G	H	I	J
SACV2-04	60	-	1/4" male SAE	28	6,5	10	17	42	38	4
SACV3-04	60	29	1/4" male SAE	28	6,5	10	17	42	38	4
SACV3-06	60	29	3/8" male SAE	28	9,6	12,7	17	43	38	4
SACV3-08	60	32	1/2" male SAE	33	12,8	15,4	17	52	38	5
SACV3-10	60	33	5/8" male SAE	38,5	16	19	19	58	38	5
SACV3-12	60	34	3/4" male SAE	45	19,2	22	25	68	44	6

PACKLESS SHUT-OFF VALVES 1/4" TO 1 1/8"

"FULL LEAK PROOF FLOATING SEAT DISC VALVES"

PART NUMBER	CONNECTION (TYPE)	COEFF.	COEFF.	COEFF.
		(KV)	(K)	(LE)
PSO-2B	1/4" flare	3,3	1,2	0,3
PSO-3B	3/8" flare	4,6	4,5	1,83
PSO-4B	1/2" flare	8,2	5,4	3,35
PSO-5B	5/8" flare	11,1	6,8	5,48
PSO-2S	1/4" ODS	3,3	1,2	0,3
PSO-3S	3/8" ODS	4,6	4,5	1,83
PSO-4S	1/2" ODS	8,2	5,4	3,35
PSO-5S	5/8" ODS	11,1	6,8	5,48
PSO-7S	7/8" ODS	27,9	4,7	6,10
PSO-9S	1 1/8" ODS	42,8	5,7	10,36

(Kv) FLOW COEFFICIENT:

Kv = litres of water per minute at 15°C through the valve at a pressure drop of 1 bar.

(K) RESISTANCE COEFFICIENT:

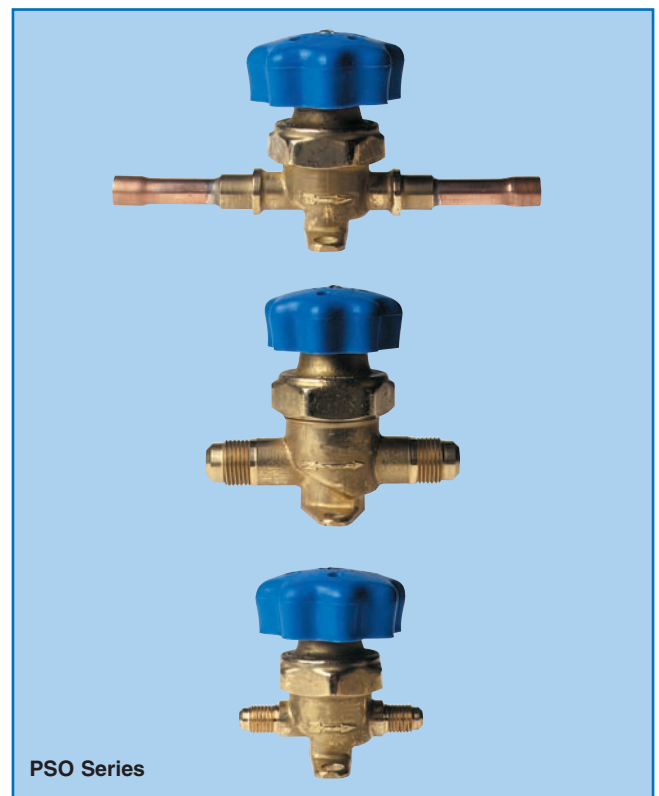
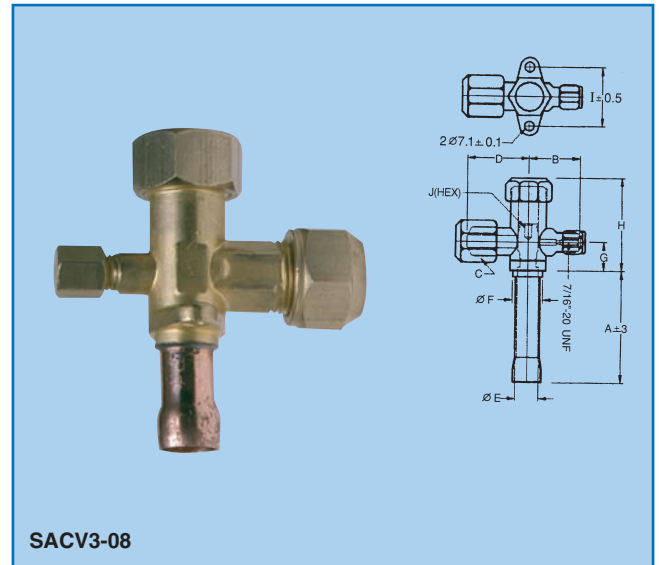
K = 2gh/V² where: (g = 9,80 m per second squared)
(h = pressure loss in metre of fluid flow)
(V = fluid velocity in metre per second)

(Le) EQUIVALENT LENGTH OF TUBING:

Le = length in metre of refrigeration tubing to provide a pressure drop equal to the pressure drop through the valve.

FEATURES

- "PSO" series packless SHUT-OFF valves are designed for a complete leak proof service in any air conditioning and refrigeration applications.
- Forged brass body for high rigidity and strength including mounting pad for easy screwed installation (if necessary). Forged brass bonnet for safe, anti-corrosion and hermetic seal diaphragms when valve is operated.
- Stay 100% back-seated and leak proof when wide open.
- Large diameter diaphragms for wide and slide face moving, greater lift as well as low pressure drop (see "FLOW CAPACITY TABLE").
- One phosphor bronze Diaphragm is used for long life. The stainless steel second one is suitable against corrosion.
- Raised seat against metallic burrs and dirt clogging.
- Stainless steel progressive shut-off spring.
- Heat stabilized and floating seat disc (non-rotating and eliminating torsional wear).
- Ergonomic hand wheel for easy grip hand operation.
- Label for quick and easy identification.



SPECIFICATIONS

- For R12, R22, R502, R134a, R404A, R407C, R507, other blends, etc... and all CFC, HCFC & HFC with their specific lubricants.
- Solid extended copper "ODS" connections for quick, safe and easy brazing.
- U.L. and CSA listed.
- Maximum temperature rating: 135°C (275°F).
- Maximum working pressure: 34,5 bar (500 psi).

PACKED ANGLE SERVICE VALVES

“CHARGING, PURGING, TESTING”

1. BRASS ANGLE VALVES

PART NUMBER	CONNECTIONS	
	BOTTOM (1)	SIDE (2)
PAS-090 PAS-771B-US	1/4" male flare 1/4" male NPT	1/4" male NPT 1/4" female NPT
PAS-22B PAS-23B	1/4" male NPT 1/4" male NPT	1/4" male flare 3/8" male flare
PAS-32B PAS-33B	3/8" male NPT 3/8" male NPT	1/4" male flare 3/8" male flare
PAS-768-US	1/2" male NPT	3/8" male flare

2. STEEL ANGLE VALVES

PART NUMBER	CONNECTIONS	
	BOTTOM (1)	SIDE (2)
PAS-761-US	1/4" male NPT	1/4" male flare
PAS-771-US	1/4" male NPT	1/4" female NPT
PAS-771R-US	1/4" male NPT	1/8" female NPT
PAS-773-US	3/8" male NPT	3/8" female NPT

FEATURES

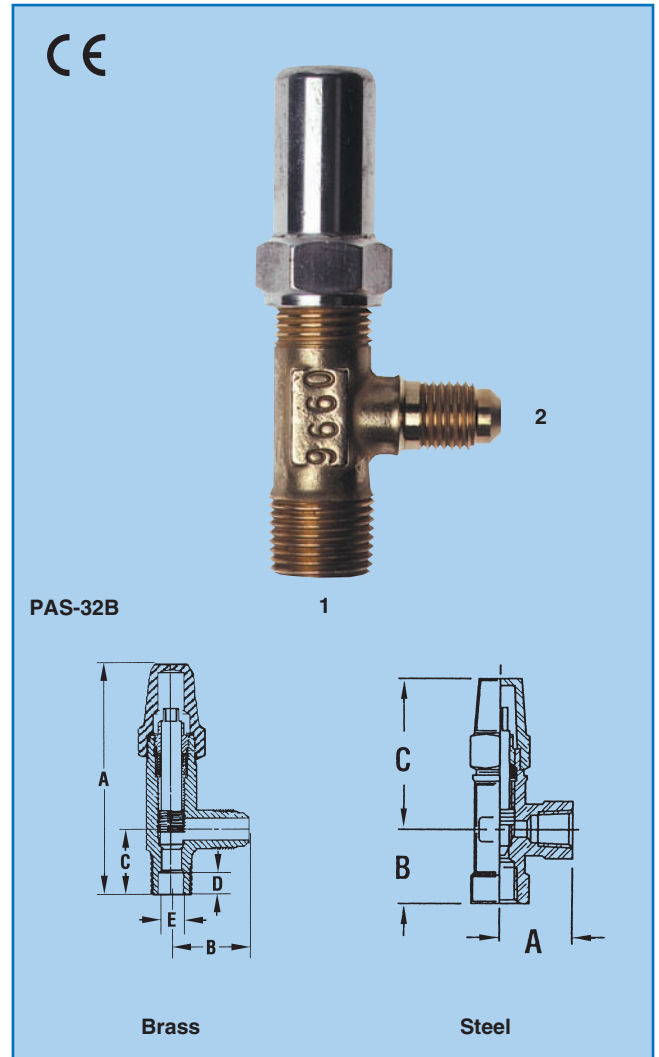
- “PAS” series **PACKED ANGLE SERVICE valves** are designed for servicing, charging, purging, gauges testing any refrigeration and air-conditioning installation.
- Forged brass (except for PAS-44 and PAS-45) or steel body for high rigidity and strength and very low or high pressures and temperatures.
- Plated steel stem and hermetic cap with seal.

INSTALLATION

- All male flare connections are standard for refrigerant hoses, and female 45° standard flare fittings.
- All male and female NPT connections are standard for gauges (1/8" NPT and 1/4" NPT) and male / female NPT fittings. (NPT = National Pipe Thread).
- For any NPT fittings, see hereunder catalogue sections:
 - “**BRASS 45° FLARE/PIPE FITTINGS**” Index 6.
 - “**STEEL FITTINGS**” Index 6.
- Our “PAS” angle valves can be installed on receivers, accumulators, compressors, tubing, etc...
- For direct steel tubing installation, use “BS” female steel fittings shown on “**STEEL FITTINGS**” Index 6.

SPECIFICATIONS

- For **R12, R22, R502, R134a, R404A, R407C, R507, other blends, etc...** and all **CFC, HCFC & HFC** with their specific oil and lubricant.
- For **R717** (ammonia) use steel angle valve version.
- **Forged brass valves:**
 - Temperature rating: **-40°C to +150°C** (-40°F/+300°F)
 - Maximum working pressure: **35 bar** (500 psi).
- **Forged steel valves:**
 - Finish: black oxide
 - Temperature rating: **-40°C to +150°C** (-40°F/+300°F)
 - Maximum working pressure: **70 bar** (1000 psi).
- CE approved (PED).



BRASS ANGLE VALVES

PART NUMBER	DIMENSIONS (mm)				
	A	B	C	D	E
PAS-090 PAS-771B-US	89	24	22	9,5	6,4
	93	32	27	9,7	9,5
PAS-22B PAS-23B	89	24	22	9,5	6,4
	93	30	27	9,5	8,0
PAS-32B PAS-33B	93	27	27	9,5	9,6
	93	30	27	9,5	9,6
PAS-768-US	100	32	31	9,7	12,7

STEEL ANGLE VALVES

PART NUMBER	DIMENSIONS (mm)		
	A	B	C
PAS-761-US	26,9	26,9	60,5
PAS-771-US	26,9	26,9	60,5
PAS-771R-US	28,0	26,9	60,5
PAS-773-US	38,1	38,1	66,8

SMALL ANGLE VALVES

V-35042 1/8" MPT male (1) x 1/4" male flare SAE (2).

V-35040 1/4" ODS solder (1) x 1/4" male flare SAE (2).

