

# PRESSURE RELIEF VALVES

Angle & Straight-Thru Types (150-675 PSIG)



Type 52 Angle



Type 523 & 524



Type 560



Type 534

- **Brass construction set and sealed** at the factory; all N.P.T.F. connections are American Standard dry-seal tapered pipe threads
- **Valves are stamped** with catalog number, size, pressure setting, capacity and ASME-UV National Board symbol; CRN number and flow arrow
- **All N.P.T.F. connections** are American standard dry-seal tapered pipe threads
- **Consistent operation** at marked pressure setting
- **These relief valves** are designed with HENRY'S "Center Loading Pivot" concept allowing the piston to reseal squarely to the body seat, thus reducing the possibilities of leakage
- **Suitable** for refrigerants R22, R134a, R404a, R410a, R500, R502 and other industrial fluids non-corrosive to brass, monel, steel, Neoprene and Teflon.
- **Factory set and sealed**
- **Temperature rating:** -20°F to +160°F
- **Orders must specify** catalog number, pressure setting, and type of refrigerant or fluid with which the valve is to be used; UV/NB certified setting range varies with design, see ratings sheet; contact Henry for non-certified setting range info.

**Selection of Relief Valves.** Most states and municipalities which have refrigeration safety codes conform to the "American Standard Safety Code for Mechanical Refrigeration (ANSI/ASHRAE 15)." This code and ASME states a relief valve setting is not to exceed the design working pressure of the vessel on which the relief valve is installed. The discharge capacity required is based on the size of the vessel and the refrigerant used. The discharge capacity of relief valves varies with the pressure setting. The capacities of Henry Relief Valves at various pressure settings are available by calling the Engineering and Technical Assistance line 1-800-627-5148.

Whenever conditions permit it is highly advisable to have the relief valve pressure setting (which must not exceed the design working pressure of the vessel) at least 25% higher than the normal maximum operating pressure for the refrigerant used.

**Standard pressure settings (brass):** 150, 235, 300, 350, 400, 450 PSIG

**Standard pressure settings (steel):** 150, 250, 300 PSIG

**Standard pressure settings (High Pressure):** 500, 550, 600, 650, 675 PSIG

**Important:** Orders must specify pressure setting.

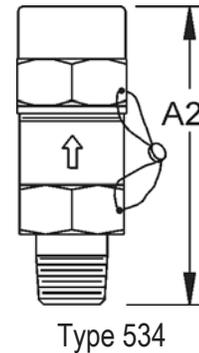
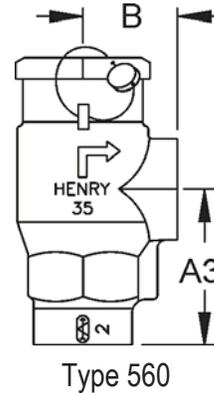
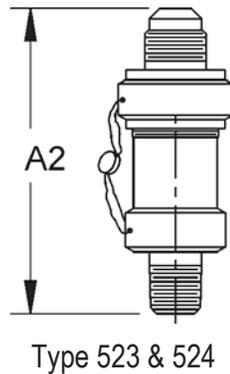
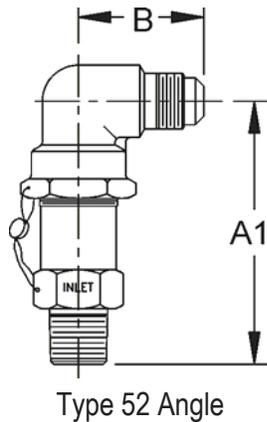
**Certification:** Available if requested on purchase order, (-C) suffix, i.e. 5600-300-C

**Relief Valve Capacity Ratings:** (Pounds per minute) - Henry Relief valves are constructed and marked in accordance with the requirements of the ASME (Boiler and Pressure Vessel Code Section VIII, Division 1).

These valves are also approved by many local refrigeration and air conditioning codes in the USA and Canada for relief of excess pressure. In addition, these valves are stamped with the ASME UV symbol and NB to indicate National Board certification as to capacities.

# PRESSURE RELIEF VALVES

## Angle & Straight-Thru Types



### Straight-Through Relief Valves

Catalog Number	Size Conn.		Length, In "A2"	Orifice Diam.	Weight lbs.
	Inlet	Outlet			
5230	1/4" M.P.T.	3/8" FL.	3.16	0.250	0.38
5231	3/8" M.P.T.	3/8" FL.	3.16	0.250	0.39
5232	1/2" M.P.T.	5/8" FL.	4.00	0.437	0.85
5232B	1/2" M.P.T.	1/2" F.P.T.	4.02	0.437	0.97
5240N1/2	1/2" M.P.T.	3/4" F.P.T.	3.74	0.312	0.95
5242N3/4	3/4" M.P.T.	3/4" F.P.T.	3.74	0.312	1.03
*5340N1/2	1/2" M.P.T.	3/4" F.P.T.	3.70	0.312	0.95
*5342N3/4	3/4" M.P.T.	3/4" F.P.T.	3.70	0.312	1.03
5244-3/4	3/4" M.P.T.	1" F.P.T.	4.16	0.500	1.46
5244-1	1" M.P.T.	1" F.P.T.	4.16	0.500	1.46
*5344-3/4	3/4" M.P.T.	1" F.P.T.	4.19	0.500	1.46
*5344-1	1" M.P.T.	1" F.P.T.	4.19	0.500	1.46
5246N1	1" M.P.T.	1-1/4" F.P.T.	6.30	0.531	2.50
5246N1-1/4	1-1/4" M.P.T.	1-1/4" F.P.T.	6.30	0.531	2.60
*5345N	1" M.P.T.	1-1/4" F.P.T.	6.30	0.531	2.50
*5346N1-1/4	1-1/4" M.P.T.	1-1/4" F.P.T.	6.30	0.531	2.60
5233A	3/8" M.P.T.	7/8" FL.	4.56	0.250	1.05
5234A	3/8" M.P.T.	3/4" F.P.T.	4.20	0.250	1.05
5235A	1/2" M.P.T.	3/4" F.P.T.	4.40	0.250	1.12

### Features:

- **Bodies:** 5600 Series, Ductile Iron; 5300 Series, Stainless Steel; 5200 Series, Brass
- **Seat** inserts, seat discs and main guides, piston stainless steel on 5600 series
- **Seat material:** Teflon® or Neoprene
- **Connections:** (NPTF) pipe threaded
- **Other component** metal parts are steel
- **Set and sealed** at the factory and furnished with nameplates stamped with catalog no., size, pressure setting, capacity and ASME-UV National Board symbol
- **Temperature rating:** -20°F (-28°C) to +160°F (+71°C)
- **Protective lacquer** finish on 5600 series
- **\*Suitable for ammonia**, HFC's and CFC's, refrigerants and other industrial fluids non-corrosive to steel and Teflon as indicated
- **Each valve** has unique serialization for tagging requirements

\* Suitable for Ammonia

### Angle Relief Valves

Catalog Number	Size Connection		Dimensions in Inches			Orifice Dia.	Weight lbs.
	Inlet	Outlet	A1	A3	B		
526E	3/8" M.P.T.	3/8" FL.	2.96	—	1.41	0.250	0.40
527E	1/2" M.P.T.	5/8" FL.	3.81	—	1.72	0.437	0.85
*5600	1/2" F.P.T.	3/4" F.P.T.	—	2.69	1.63	0.500	3.60
*5601	1/2" F.P.T.	1" F.P.T.	—	2.69	1.63	0.500	3.44
*5602	3/4" F.P.T.	1" F.P.T.	—	2.69	1.63	0.500	3.40
*5603	1" F.P.T.	1-1/4" F.P.T.	—	2.88	2.00	.0500	4.75
*5604	1-1/4" F.P.T.	1-1/2" F.P.T.	—	4.13	2.31	0.703	6.50

# PRESSURE RELIEF VALVES



## Angle & Straight-Thru Types

### Features:

Relief Valves in the types and sizes shown are constructed in accordance with the requirements of the ASME. These valves are also approved by many local refrigeration and air conditioning codes in the USA and Canada for relief of excess pressure. In addition, these valves are stamped with ASME- UV symbol and NB to indicate National Board certification of capacities between 150 P.S.I. and 450 P.S.I.



ASME NB  
National  
Board  
Certified

Whenever conditions permit, it is advisable to have the relief valve pressure setting (which must not exceed the design working pressure of the vessel) at least 25 percent higher than the normal maximum operating pressure for the refrigerant used.

### \* Suitable for Ammonia

National Board Certified Relief Valve Capacity Ratings (pounds of air per min.)						
Catalog Number	Pressure Settings—PSIG					
	150	235	300	350	400	450
5230	5.0	7.6	9.6	11.2	12.7	14.3
5231	5.0	7.6	9.6	11.2	12.7	14.3
526E	5.0	7.6	9.6	11.2	12.7	14.3
5232	12.6	19.1	24.2	28.0	31.9	35.7
5232B	12.6	19.1	24.2	28.0	31.9	35.7
527E	12.6	19.1	24.2	28.0	31.9	35.7
5240N1/2	13.1	19.9	25.1	29.2	33.2	37.2
5242N3/4	13.1	19.9	25.1	29.2	33.2	37.2
* 5340N1/2	13.1	19.9	25.1	29.2	33.2	37.2
* 5342N3/4	13.1	19.9	25.1	29.2	33.2	37.2
5244-3/4	33.2	50.5	63.8	73.9	84.1	94.3
5244-1	33.2	50.5	63.8	73.9	84.1	94.3
* 5344-3/4	33.2	50.5	63.8	73.9	84.1	94.3
* 5344-1	33.2	50.5	63.8	73.9	84.1	94.3
5246N1	44.6	67.8	85.2	99.1	112.8	126.4
5246N1-1/4	44.6	67.8	85.2	99.1	112.8	126.4
* 5345N	44.6	67.8	85.2	99.1	112.8	126.4
* 5346N1-1/4	44.6	67.8	85.2	99.1	112.8	126.4

Catalog Number	Pressure Settings—PSIG		
	150	250	300
5600	30.9	49.9	59.4
5601	35.8	57.7	68.7
5602	35.8	57.7	68.7
5603	37.5	60.4	71.9
5604	72.0	116.1	138.1

HIGH PRESSURE RELIEF VALVES UP TO 675 PSIG						
Catalog Number	Pressure Settings—PSIG					
	450	500	550	600	650	675
5233A	N/A	31.2	34.2	37.2	40.3	41.8
5234A	N/A	31.2	34.2	37.2	40.3	41.8
5235A	N/A	31.2	34.2	37.2	40.3	41.8

Capacity in CFM: To convert pounds of air per minute to standard cubic feet per minute, multiply by 13.3.