STOP VALVES

Stop valves have a very compact design and a fixing flange that is dimensioned to meet the current market requirements.

Valves 6170 and 6175 must be completed with the following components, which must be ordered separately:

- Internal spring mechanism, part no. 8394/B or external spring mechanism, part nos. 8395/A1 or 8395/A3
- Cap with gasket code 8392/A or 1/4" SAE FLARE blind union part no. 7020/20.

Valves 6176 6176 have been specifically designed to be installed on air conditioning systems that use R410A refrigerant fluid. They must be completed with the following components, to be ordered separately:

- External spring mechanisms, part no. 8395/A1 and 8395/A3
- 5/16" SAE FLARE blind union, part no. 7020/X02

The main parts of the stop valves are made with the following materials:

- Hot forged brass EN 12420 – CW 617N for the body.
- Brass EN 12164 – CW 614N for spindle and protection cap
- Chloroprene rubber (CR) for outlet seal gaskets for series 6165, 6175 and 6176
- Chloroprene rubber (CR) and aramid fibres for gland seal, only for series 6170

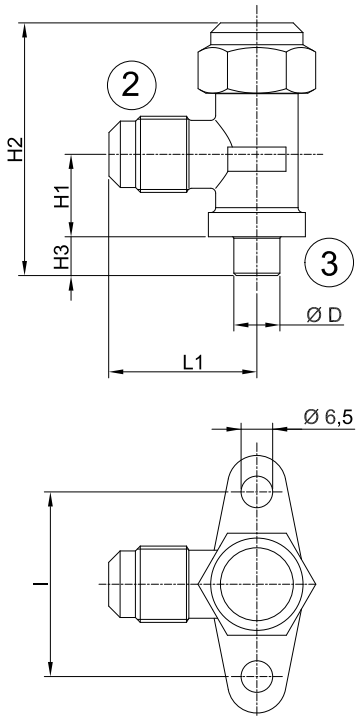
TABLE 5: General characteristics of valves for split systems

Catalogue Number	Way Nr.	Connections				Kv Factor [m^3/h]	PS [bar]	TS [°C]		TA [°C]		Risk Category according to PED Recast
		SAE Flare		ODS				min.	max.	min.	max.	
		(1)	(2)	Ø [in.]	Ø [mm]							
6165/22	2	–	1/4"	1/4"	–	0,68	45	-20	+110	-20	+50	Art. 4.3
6165/33			3/8"	3/8"		1,70						
6175/33	3	1/4"	3/8"	3/8"		1,70						
6175/44			1/2"	1/2"		3,40						
6175/55			5/8"	5/8"	16	4,60						
6170/66			3/4"	3/4"	–	9,00						
6170/77			7/8"	7/8"		10,80						
6176/44	3	5/16"	1/2"	1/2"		3,40						
6176/55			5/8"	5/8"	16	4,60						
6176/66			3/4"	3/4"		7,50						

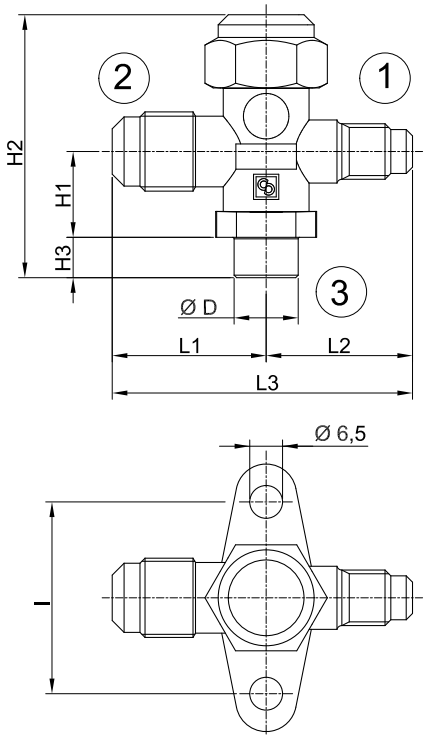
TABLE 6: Dimensions and weights of valves for split systems

Catalogue Number	Dimensions [mm]								Weight [g]
	H_1	H_2	H_3	D	L_1	L_2	L_3	I	
6165/22	17	52	8	9,5	29	–	–	38	113
6165/33				12,7	30 ,5				120
6175/33						29	59,5		135
6175/44	20	65		15,9	36	31	67		225
6175/55				19,0					235
6170/66	28,5	104	12	22,2	47	36	83	50	655
6170/77				28,6					670
6176/44	20	65	8	15,9	36	31	67	38	225
6176/55				19,0					235
6176/66	24	70		22,2	41		72		280

6165



6170
6175
6176



DIAPHRAGM VALVES

Diaphragm valves do not have a gland seal. Thin metal discs (diaphragms), which hermetically isolate the spindle chamber from the fluid flow area, ensure the external sealing.
The main parts of the diaphragm valves are made with the following materials:

- Hot forged brass EN 12420 – CW 617N for the body.
- Brass EN 12164 – CW 614N for spindle
- Harmonic steel for spring
- Nylon for seat sealing gaskets

TABLE 7: General characteristics of diaphragm valves

Catalogue Number	Connections			Kv Factor [m³/h]	PS [bar]	TS [°C]		TA [°C]		Risk Category according to PED Recast
	SAE Flare	ODS				min.	max.	min.	max.	
		Ø [in.]	Ø [mm]							
6210/2	1/4"	–	–	0,28	28	-35	+90	-35	+50	Art. 4.3
6210/3	3/8"			1,00						
6210/4	1/2"			1,30						
6210/5	5/8"			1,80						
6210/6	3/4"			3,65						
6220/M6	–	–	6	0,28						
6220/2		1/4"	–							
6220/3		3/8"		1,00						
6220/M10		–	10							
6220/4		1/2"	–	1,30						
6220/5		5/8"	16	1,80						
6220/6		3/4"	–	3,65						
6220/7		7/8"								