November 2022

Pressure Equipment Directive (PED) and Pressure Equipment (Safety) Regulation (PE(S)R) Classification Guide for Regulator Products

Introduction

The Pressure Equipment Directive (PED) 2014/68/EU and the Pressure Equipment (Safety) Regulation 2016 (PE(S)R) requires pressure equipment destined for Europe and the United Kingdom to have a CE and UKCA mark indicating that the equipment meets all aspects of the respective directive except where noted for SEP.

The PED and PE(S)R are directives that apply to the design, manufacture and conformity assessment of pressure equipment and pressure assemblies. All equipment covered by the directive must comply with essential safety requirements and meet the equivalent national laws of all member countries.

PED and PE(S)R Classification

To ensure that products destined for Europe meet the requirements of PED and PE(S)R, it is necessary to determine the proper classification. Pressure equipment can be classified in one of the following categories:

- SEP (Sound Engineering Practice)
- Category I
- Category II
- Category III
- Category IV

SEP Products

The SEP classification applies to pressure equipment that is not subject to Category I, II, III or IV conformity assessment, but must be designed and manufactured with “sound engineering practice” as defined by the PED and PE(S)R. SEP classified products do not and cannot receive a CE and UKCA mark.

Product Classification

Use Tables 1 to 5 to find the category of a specific product.

Figure 1. *CE and UKCA Mark*

Note

Any specific type number, body size or body material not included in the Product Classification table is not available for sale into Europe. Products can only be processed per classification specified in the Products Classification table.

Due to Classification limitations, some products may not be available at full rated pressures. Be sure to check the Product Classification table for any limitations.

PED and PE(S)R Documentation

Documentation

Products destined for Europe will contain an Installation Guide in the language requested or in the language of destination. If a language is not requested or the destination is unknown, English, German and French Installation Guides will be included.

Documentation On-Line

PED/PE(S)R Installation Guides in the desired language are available on the internet for immediate viewing and downloading. Visit www.Emerson.com, search for the product brand and locate the PED/PE(S)R Installation Guide under the Documentations & Drawings tab. These documents require Adobe Acrobat Reader to view.

Table 1. *PED and PE(S)R Classification for Products Manufactured in McKinney or FROMEX*[1]

SERIES OR TYPE	SIZE		BODY MATERIAL	END CONNECTION	PED/PE(S)R LIMITATION		CATEGORY
	NPS	DN			psig	bar	
32A pilot	1/4	- - - -	All	All	- - - -	- - - -	SEP
61 pilot	1/4	- - - -	All	All	- - - -	- - - -	SEP
63EG	1	25	All	All	- - - -	- - - -	SEP
	2	50	Steel, Stainless steel	NPT, CL150 RF, CL300 RF, PN 16/25/40	- - - -	- - - -	II
	3 and 4	80 and 100	Steel, Stainless steel	CL150 RF, CL300 RF, PN 16	- - - -	- - - -	II
	6	150	Steel, Stainless steel	CL150 RF, CL300 RF, PN 16	275	19.0	II
	8 x 6	200 x 150	Steel, Stainless steel	CL150 RF	232	16.0	II
66	2 to 4	50 to 100	All	All	7.3	0.50	SEP
67C/CF	1/4	- - - -	All	All	- - - -	- - - -	SEP
67CS/CFS	1/4	- - - -	All	All	- - - -	- - - -	SEP
67D/DF	1/2	15	All	All	- - - -	- - - -	SEP
67DS/DFS	1/2	15	All	All	- - - -	- - - -	SEP
92B pilot	1/4	- - - -	All	All	- - - -	- - - -	SEP
92B	1	25	All	All	- - - -	- - - -	SEP
	1-1/2 and 2	40 and 50	Steel, Stainless steel	NPT, CL150 RF, CL300 RF, PN 16/25/40	- - - -	- - - -	II
	3 and 4	80 and 100	Steel, Stainless steel	CL150 RF, CL300 RF, PN 16/25/40	- - - -	- - - -	II
92C	1/2 to 1	15 to 25	All	All	- - - -	- - - -	SEP
92S/W	1	25	All	All	- - - -	- - - -	SEP
	1-1/2 and 2	40 and 50	Steel, Stainless steel	NPT, CL150 RF, CL300 RF, PN 16/25/40	- - - -	- - - -	II
	2-1/2 to 4	65 to 100	Steel, Stainless steel	CL150 RF, CL300 RF PN 16/25/40	- - - -	- - - -	II
	6 x 4	150 x 100	Steel, Stainless steel	CL300 RF	275	19.0	II
99	2	50	Cast iron	NPT, CL125 FF, CL250 RF	275	19.0	I
			Steel	NPT, CL150 RF, CL300 RF	275	19.0	I
112	1/4	- - - -	All	All	- - - -	- - - -	SEP
119	3/4 and 1	20 and 25	All	All	- - - -	- - - -	SEP
133H/HP/L/Z	2	50	All	NPT, CL125 FF	- - - -	- - - -	I
			Steel	NPT, CL150 RF	- - - -	- - - -	I
161EB	1/4	- - - -	All	All	- - - -	- - - -	SEP
161AY	1/2	15	All	All	- - - -	- - - -	SEP
167D/DS	1/4 and 1/2	15	All	All	- - - -	- - - -	SEP
167DA/DAS	1/4 and 1/2	15	All	All	- - - -	- - - -	SEP
168/168H/68-2	1/4	- - - -	All	All	- - - -	- - - -	SEP
252	1/4	- - - -	All	All	- - - -	- - - -	SEP
289A	1/4	- - - -	All	All	- - - -	- - - -	SEP
289H	1	25	All	All	- - - -	- - - -	SEP
	2	50	All	All	- - - -	- - - -	I
289HH	1	25	All	All	- - - -	- - - -	SEP
289L	3/4 and 1	20 and 25	All	All	- - - -	- - - -	SEP
289P	1	25	All	All	- - - -	- - - -	SEP
289RC	1	25	All	All	- - - -	- - - -	SEP
289U	1/4	- - - -	All	All	- - - -	- - - -	SEP
299H/HR/HS/HSR/ HV/HVR	1-1/2	- - - -	Ductile iron, Cast iron, Steel	NPT	- - - -	- - - -	I
	2	50	Ductile iron, Cast iron	NPT, CL125 FF, CL250 RF, PN 10/16	- - - -	- - - -	I
			Steel	NPT, CL150 RF, CL300 RF, PN 10/16	- - - -	- - - -	I
310A	1	25	All	All	- - - -	- - - -	SEP
	2 to 4	50 to 100	Steel	CL300 RF, CL600 RF	- - - -	- - - -	III
	4 x 6	100 x 150	Steel	CL300 RF, CL600 RF	- - - -	- - - -	III

1. Please consult factory for other products not listed in this Bulletin.

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Table 1. *PED and PE(S)R Classification for Products Manufactured in McKinney or FROMEX[1] (continued)*

SERIES OR TYPE	SIZE		BODY MATERIAL	END CONNECTION	PED/PE(S)R LIMITATION	CATEGORY
	NPS	DN				
627/H/M/R/HM/ F/W/WH	3/4 and 1	20 and 25	All	All	- - - -	SEP
	2	50	Steel, Stainless steel	NPT, CL150 RF, CL300 RF, CL600 RF, PN 16/25/40	No Aluminum casings	II
627-109	3/4 and 1	20 and 25	All	All	- - - -	SEP
630	1	25	All	All	- - - -	SEP
670	1/4	- - - -	All	All	- - - -	SEP
912N	1/4 and 3/8	- - - -	All	All	- - - -	SEP
1098/H-EGR, 1098-63EG	1	25	Steel, Stainless steel	NPT, CL150 RF, CL300 RF, PN 16/25/40	- - - -	SEP
	2	50	Steel, Stainless steel	NPT, CL150 RF, CL300 RF, PN 16/25/40	- - - -	II
	3 and 4	80 and 100	Steel, Stainless steel	CL150 RF, CL300 RF, PN 16	- - - -	II
	6	150	Steel, Stainless steel	CL150 RF, CL300 RF, PN 16	- - - -	II
	8 x 6	200 x 150	Steel, Stainless steel	CL150 RF	- - - -	II
1190/1290	1	25	Steel, Stainless steel	NPT, CL150 RF, CL300 RF, PN 16/25/40	- - - -	SEP
	2	50	Steel, Stainless steel	NPT, CL150 RF, CL300 RF, PN 16/25/40	- - - -	II
	3 and 4	80 and 100	Steel, Stainless steel	CL150 RF, CL300 RF, PN 16	- - - -	II
	6	150	Steel, Stainless steel	CL150 RF, CL300 RF, PN 16	- - - -	II
1301/F/G	1/4	- - - -	All	All	- - - -	SEP
1305	1	25	All	All	- - - -	SEP
1367	1/4	- - - -	All	All	- - - -	SEP
6351 pilot	1/4	- - - -	All	All	- - - -	SEP
6352 pilot	1/4	- - - -	All	All	- - - -	SEP
6353 pilot	1/4	- - - -	All	All	- - - -	SEP
6354 pilot	1/4	- - - -	All	All	- - - -	SEP
6358 pilot	1/4	- - - -	All	All	- - - -	SEP
6392 pilot	1/4	- - - -	All	All	- - - -	SEP
6492 pilot	1/4	- - - -	All	All	- - - -	SEP
ACE95	3/4 and 1	20 and 25	All	All	- - - -	SEP
ACE95jr	1/2 and 1	15 and 25	All	All	- - - -	SEP
ACE95Sr	2	50	Stainless steel	NPT, CL150 RF, CL300 RF	- - - -	I
ACE97[2]	1/2 and 1	15 and 25	Stainless steel	All	- - - -	SEP
	2	50	Stainless steel	CL150 RF	- - - -	I
CS400, CSB400, CS800 and VS100	See Table 2	See Table 2	See Table 2	See Table 2	See Table 2	See Table 2
EZR	1	25	All	All	- - - -	SEP
	2 and 2 x 1	50 and 50 x 25	Steel	NPT, BWE, CL150 RF, CL300 RF, CL600 RF, PN 16/25/40	- - - -	III
	3 to 6	80 to 150	Steel	NPT, BWE, CL150 RF, CL300 RF, CL600 RF, PN 16/25/40	- - - -	III
	8 and 8 x 6	200 and 200 x 150	Steel	CL150 RF, CL300 RF, CL600 RF	- - - -	III
EZR Relief	1, 2, 3, 4 and 6	25, 50, 80, 100 and 150	Steel	NPT, SWE, CL150 RF, CL300 RF, CL600 RF, BWE	- - - -	III
H120	1/4	- - - -	All	All	- - - -	SEP
H200	3/4, 1	- - - -	Brass	NPT	- - - -	SEP
H800	1/4	- - - -	All	All	- - - -	SEP
HSR	3/4 to 1	20 to 25	All	All	- - - -	SEP

1. Please consult factory for other products not listed in this Bulletin.
2. Size refers to inlet (PAD) connection.

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Table 1. *PED and PE(S)R Classification for Products Manufactured in McKinney or FROMEX[1] (continued)*

SERIES OR TYPE	SIZE		BODY MATERIAL	END CONNECTION	PED/PE(S)R LIMITATION	CATEGORY
	NPS	DN				
LR125	1 and 2	25 and 50	All	All	- - - -	SEP
	3 and 4	80 and 100	All	All	- - - -	II
LR128	1 and 2	25 and 50	All	All	- - - -	SEP
	3 and 4	80 and 100	All	All	- - - -	II
MR95H/HD/HDP	See Table 2	See Table 2	See Table 2	See Table 2	See Table 2	See Table 2
MR95HP/HT						
MR95L/LD						
MR98H/HD/HDP						
MR98HH/HHD						
MR98L/LD						
MR105, MR108	1	25	Steel, Stainless steel	NPT, CL150 RF, CL300 RF, CL600 RF, PN 16/25/40	- - - -	SEP
	2	50				II
	3 and 4	80 and 100		CL150 RF, CL300 RF, CL600 RF, PN 16		
P590 filter	1/4	- - - -	All	All	- - - -	SEP
SR5, SR8	1/2, 3/4 and 1	15, 20 and 25	All	All	- - - -	SEP
	1-1/2 x 1, 1-1/2 and 2	40 x 25, 40 and 50	All	All	- - - -	I
	3	80	All	All	- - - -	II
T205, T205B and T208	3/4 and 1	20 and 25	All	All	- - - -	SEP
Y191A pilot	3/4 and 1	20 and 25	All	All	- - - -	SEP
Y291 pilot	3/4	20	All	All	- - - -	SEP
Y600A	3/4 or 1	- - - -	Cast iron	NPT	- - - -	SEP
Y690A/AH/AHM/AM	3/4 and 1	20 and 25	All	All	- - - -	SEP
Y690VB/VBM	3/4 and 1	20 and 25	All	All	- - - -	SEP
Y692/VB/VBM	1-1/2	40	Cast iron	NPT	- - - -	I
			Steel, Stainless steel, Hastelloy® C	NPT, CL150 RF, CL300 RF, PN 16/25/40	- - - -	I
	2	50	Cast iron	NPT, CL125 FF	- - - -	I
			Steel, Stainless steel, Hastelloy® C	NPT, CL150 RF, CL300 RF, PN 16/25/40	- - - -	I
Y693	1-1/2	40	Cast iron	NPT	- - - -	I
			Steel, Stainless steel	NPT, CL150 RF, CL300 RF, PN 16/25/40	- - - -	I
	2	50	Cast iron	NPT	- - - -	I
			Steel, Stainless steel	NPT, CL150 RF, CL300 RF, PN 16/25/40	- - - -	I
Y695A/AM/VR	3/4 and 1	20 and 25	All	All	- - - -	SEP
Y695RR	3/4 or 1	- - - -	Ductile iron	NPT	- - - -	SEP
Y696/VR/VRM	1-1/2	40	Cast iron	NPT	- - - -	I
			Steel, Stainless steel, Hastelloy® C	NPT, CL150 RF, CL300 RF, PN 16/25/40	- - - -	I
	2	50	Cast iron	NPT	- - - -	I
			Steel, Stainless steel, Hastelloy® C	NPT, CL150 RF, CL300 RF, PN 16/25/40	- - - -	I

1. Please consult factory for other products not listed in this Bulletin.

Hastelloy® C is a mark owned by Haynes International, Inc.

Table 2. *PED and PE(S)R Classification for Products Manufactured in FROMEX[4] or Cluj, Romania[1]*

SERIES OR TYPE	SIZE		BODY MATERIAL	END CONNECTION	PED/PE(S)R LIMITATION	CATEGORY
	NPS	DN				
CS400 and CS404	1-1/4, 1-1/2 and 2	32, 40 and 50	Ductile cast iron	NPT, Rp	- - - -	I (without slam shut) IV (with slam shut)
	2	50		CL125 FF/CL150 FF, PN 10/16	- - - -	
	1-1/4 and 1-1/2	32 and 40	Cast steel	NPT, Rp	- - - -	
CSB400, CSB410, CSB420, CSB430, CSB450, CSB404, CSB414, CSB424, CSB434 and CSB454	1, 1-1/4, 1-1/2 and 2	25, 32, 40 and 50	Ductile cast iron	NPT	- - - -	I (without slam shut) IV (with slam shut)
	1, 1-1/4, 1-1/2, 2, 1 x 1-1/4 and 1 x 2-1/4	25, 32, 40, 50, 25 x 32 and 25 x 57		Rp	- - - -	
	2	50		CL125 FF/CL150 FF, PN 10/16	- - - -	
	1-1/2	40		PN 16 Slip-On	- - - -	
	1, 1-1/4 and 1-1/2	25, 32 and 40	Cast steel	NPT, Rp	- - - -	
CS800, CS820, CS850, CS804, CS824 and CS854	1-1/2	40	Ductile cast iron, Cast steel	NPT, Rp	- - - -	I (without slam shut) IV (with slam shut)
	2	50	Ductile cast iron, Cast steel	NPT, Rp, PN 10/16, CL125 FF/ CL150 FF, CL150 RF	- - - -	
CSB600, CSB604, CSB620, CSB624, CSB650 and CSB654	1-1/4, 1-1/2 and 2	32, 40 and 50	Ductile iron	NPT, Rp	- - - -	I (without slam shut) IV (with slam shut)
	2	50		CL125 FF / CL150 FF, PN 10/16	- - - -	
	1-1/4 and 1-1/2	32 and 40		PN 16 Slip-On	- - - -	
	1-1/4, 1-1/2 and 2	32, 40 and 50	WCC steel	NPT, Rp	- - - -	
	2	50		CL150 RF, PN 10/16		
CSB700, CSB704, CSB720, CSB724, CSB750 and CSB754	1-1/2 and 2	40 and 50	Ductile iron	NPT, Rp	- - - -	I (without slam shut) IV (with slam shut)
	2	50		CL125 FF / CL150 FF, PN 10/16	- - - -	
	1/1/2002	40		PN 16 Slip-On	- - - -	
	1-1/2 and 2	40 and 50	WCC steel	NPT, Rp	- - - -	
	2	50		CL150 RF, PN 10/16		
MR95H/HD/HDP	1/4 to 1	15 to 25	All	All	- - - -	SEP
	1-1/2 and 2	40 and 50	Cast Iron	NPT	- - - -	I[3]
			All except Cast iron	NPT, CL150 RF, CL300 RF, CL600 RF, SWE, PN 16/25/40	- - - -	II[2]
MR95HP/HT	1/4 to 1	15 to 25	All	All	- - - -	SEP
	1-1/2 and 2	40 and 50	All except Cast iron	NPT, CL150 RF, CL300 RF, CL600 RF, SWE, PN 16/25/40	- - - -	II[2]
MR95L/LD	1/4 to 1	15 to 25	All	All	- - - -	SEP
MR98H/HD/HDP	1/4 to 1	15 to 25	All	All	- - - -	SEP
	1-1/2 and 2	40 and 50	All except Cast iron	NPT, CL150 RF, CL300 RF, SWE, PN 16/25/40	- - - -	II[2]
MR98HH/HHD	1/4 to 1	15 to 25	All	All	- - - -	SEP
MR98L/LD	1/4 to 1	15 to 25	All	All	- - - -	SEP
VS111 and VS112	1, 1-1/4, 1-1/2 and 2	25, 32, 40 and 50	Ductile cast iron	NPT	- - - -	IV
	1, 1-1/4, 1-1/2, 2, 1 x 1-1/4 and 1 x 2-1/4	25, 32, 40, 50, 25 x 32 and 25 x 57		Rp		
	2	50		CL125 FF, CL150 FF, PN 10/16		
	1-1/2	40		PN 16 Slip-On		
	1, 1-1/4 and 1-1/2	25, 32 and 40	Steel	NPT, Rp		

1. Please consult factory for other products not listed in this Bulletin.
2. Only manufactured in Cluj, Romania.
3. Cast iron body materials only available from FROMEX.
4. FROMEX can only manufacture SEP and Category I PED Classifications for all MR95 and MR98 Series.

Table 3. *PED and PE(S)R Classification for Products Manufactured in Gallardon, France or Cluj, Romania*[1]

SERIES OR TYPE	SIZE		BODY MATERIAL	END CONNECTION	PED/PE(S)R LIMITATION	CATEGORY
	NPS	DN				
B	3/4 x 1-1/4	20 x 32	Zinc/Aluminum Alloy	Inlet: Sphero-conical or flat joint connection Outlet: Flat meter joint connection	- - - -	SEP
B NG	3/4 x 1, 1-1/4	20 x 25, 32	Aluminum	Inlet: Sphero-conical or flat joint connection Outlet: BS746, ISO228	- - - -	SEP
BPZ-MPZ	1 x 2-1/4	25 x 57	Ductile iron	Internal x External GAS	- - - -	SEP
EZH	1, 2, 3 , 4, 6 and 8	25, 50, 80 and 100	WCC Steel, LCC steel	NPT, SWE, CL150 RF, CL300 RF, CL600 RF, BWE, PN 16/25/40	- - - -	IV
EZHOSX	1, 2, 3, 4 and 6	25, 50, 80 and 100	LCC Steel	NPT, SWE, CL150 RF, CL300 RF, CL600 RF, BWE, PN 16/25/40	- - - -	IV
EZHSO	1, 2, 3, 4, 6 and 8	25, 50, 80 and 100	WCC Steel, LCC steel	NPT, SWE, CL150 RF, CL300 RF, CL600 RF, BWE, PN 16/25/40	- - - -	IV
EZHSO-OSX	1, 2, 4 and 6	25, 50 and 80	LCC Steel	NPT, SWE, CL150 RF, CL300 RF, CL600 RF, BWE, PN 16/25/40	- - - -	IV
EZR, EZR-OS2	1, 2, 3, 4, 6	25, 50, 80, 100, 150	LCC Steel	CL150, CL300, CL600, PN 16/25/40	- - - -	IV
OSE	1, 2, 3, 4, 6, 8 and 10	25, 50, 80, 100, 150, 200 and 250	Steel	PN 100 B / PN 50 B / PN 20 B, CL150, CL300, CL600, PN 16/25/40	- - - -	IV
REGAL 3	2	50	Ductile iron	PN 10/16, PN 20, CL150 RF	- - - -	I
RPE	1/4	- - - -	Steel	NPT	- - - -	II

1. Please consult factory for other products not listed in this Bulletin.

Table 4. *PED and PE(S)R Classification for Products Manufactured in Bologna, Italy or Cluj, Romania*[1]

SERIES OR TYPE	SIZE		BODY MATERIAL	END CONNECTION	PED/PE(S)R LIMITATION	CATEGORY
	NPS	DN				
971	10	250	Steel	CL300 RF, CL600 RF	- - - -	III
A/140	2	50	Die-cast aluminium	PN 16 UNI/EN	- - - -	I (without slam shut) IV (with slam shut)
B/240	1-1/2	40	Die-cast aluminium	BSP, PN 16 UNI/EN	- - - -	I (without slam shut) IV (with slam shut)
BLE/BLX	1, 2 and 3	25, 50 and 80	Steel	ISO PN 100 B (CL600 RF), ISO PN 50 B (CL300 RF), ISO PN 20 B (CL150 RF), ISO PN 16 B, 25 B, 40 B	- - - -	IV
BM5	1, 1-1/2, 2, 2-1/2, 3, 4 and 6	25, 40, 50, 65, 80, 100 and 150	Steel	PN 16, 25 UNI/EN CL150 RF, CL300 RF, CL600 RF	- - - -	IV
BM6X	3, 4, 6, 8, 10 and 12	80, 100, 150, 200, 250 and 300	Steel	CL150 RF, CL300 RF, CL600 RF	- - - -	IV
CNF, CN, CF	All	All	Steel	CL300 RF, CL600 RF, UNI/EN PN 6	- - - -	Max. IV
CRONOS	1, 2 and 3	25, 50 and 80	Steel	PN 16/25/40 - CL150/300/600 RF	- - - -	IV
Dosaodor	1/4	- - - -	Steel	Ferrule Fitting	- - - -	II[2]
FA	2, 2-1/2, 3, 4, 6, 8, 10, 12, 14 and 16	50, 65, 80, 100, 150, 200, 250, 300, 350 and 400	Steel	CL150 RF, CL300 RF, CL600 RF	- - - -	Max. IV
FAG	1, 1-1/2, 2, 2-1/2, 3, 4, 6, 8, 10 and 12	25, 40, 50, 65, 80, 100, 150, 200, 250 and 300	Steel	PN 16 UNI/EN, CL150 RF	- - - -	Max. IV
FL	Same Inlet/Outlet		Steel	FL-BP CL150 RF/PN 16/25 FL CL300 RF/CL600 RF	- - - -	IV
	1, 1-1/2, 2, 2-1/2, 3, 4, 6 and 8	25, 40, 50, 65, 80, 100, 150 and 200				
	Different Inlet/Outlet with SRS Silencer					
	1 x 4, 1-1/2 x 6, 2 x 6, 2-1/2 x 8, 3 x 10, 4 x 10, 6 x 12 and 8	25 x 100, 40 x 150, 50 x 150, 65 x 200, 80 x 250, 100 x 250, 150 x 300 and 200				

1. Please consult factory for other products not listed in this Bulletin.
2. Size refers to inlet (PAD) connection.

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Table 4. *PED and PE(S)R Classification for Products Manufactured in Bologna, Italy or Cluj, Romania[1] (continued)*

SERIES OR TYPE	SIZE		BODY MATERIAL	END CONNECTION	PED/PE(S)R LIMITATION	CATEGORY
	NPS	DN				
MN-MF	1, 1-1/2, 2, 2-1/2, 3 and 4	25, 40, 50, 65, 80 and 100	Cast steel	MN Series (widened outlet flanges) NPS 1 x 2-1/2, 1-1/2 x 3, 2 x 4, 2-1/2 x 4, 3 x 6, 4 x 8 / DN 25 x 65, 40 x 80, 50 x 100, 65 x 100, 80 x 150, 100 x 200 PN 16 UNI/EN - CL150 RF MF Series (same inlet and outlet) NPS 1, 1-1/2, 2, 3, 4 / DN 25, 40, 50, 80, 100 PN 16 UNI/EN - CL150 RF	- - - -	SEP - DN 25 I - DN 40 to 50 II - DN 65 to 100 IV - All sizes with SSD
OL	All	All	Steel, Stainless steel	PN 16, CL150 RF, CL600 RF	- - - -	IV
PRX	1/4	- - - -	Steel	NPT	- - - -	SEP
R	All	All	Aluminum	All	- - - -	SEP
RP	RP/011 - 1 x 1-1/4	RP/011 - 25 x 32	Cast iron	BSP, PN 16/25/40 UNI/EN - CL150/300 RF	- - - -	SEP
	RP/022 - 1-1/4 x 2	RP/022 - 32 x 50		BSP, PN 16/25/40 UNI/EN - CL150/300 RF	- - - -	I
	RP/033 - 2 x 3	RP/033 - 50 x 80		BSP, PN 16/25/40 UNI/EN - CL150/300 RF	- - - -	
SV	All	All	Steel	CL300 RF, CL600 RF, UNI/EN PN 6	- - - -	Max. IV
V/20	1	- - - -	Aluminum	NPT	- - - -	SEP
V/50	1 x 1-1/2	25 x 40	Aluminum	BSP	- - - -	Max. I
V/60	1 x 1-1/2	25 x 40	Aluminum	BSP	- - - -	SEP
VFA	2, 2-1/2, 3, 4, 5, 6, 8 and 10	50, 65, 80, 100, 125, 150, 200 and 250	Steel	PN 16 UNI/EN, CL150 RF	- - - -	Max. III
VS/FL	1, 1-1/2, 2, 2-1/2, 3, 4 and 6	25, 40, 50, 65, 80, 100 and 150	Steel	PN 16, CL150 RF, CL300 RF, CL600 RF	- - - -	IV
VS100	See Table 2	See Table 2	See Table 2	See Table 2	See Table 2	See Table 2

1. Please consult factory for other products not listed in this Bulletin.
2. Size refers to inlet (PAD) connection.

Table 5. *PED and PE(S)R Classification for Products Manufactured in Shanghai, China[1]*

SERIES OR TYPE	SIZE	BODY MATERIAL	END CONNECTION	PED/PE(S)R LIMITATION	CATEGORY
R622	1/2	Aluminum	NPT	- - - -	SEP

1. Please consult factory for other products not listed in this Bulletin.

Table 6. *PED and PE(S)R Classification for Products Manufactured in Chengdu, China*[1]

SERIES OR TYPE	SIZE		BODY MATERIAL	END CONNECTION	PED/PE(S)R LIMITATION		CATEGORY
	NPS	DN			psig	bar	
BM5A	1, 2, 3, 4 and 6	25, 50, 80, 100 and 150	A105	CL150 Flanged	290	20	II, III and IV
				CL300 Flanged	725	50	
				CL600 Flanged	1450	100	
FLA1	1, 1-1/2, 2, 3, 4, 6, 8 and 10	25, 40, 50, 80, 100, 150, 200 and 250	A105	CL300 Flanged	725	50	IV
				CL600 Flanged	1450	100	
EZR	1, 2, 3, 4 and 6	25, 50, 80, 100 and 150	WCC and LF2	CL150 Flanged	290	20	II, III and IV
				CL300 Flanged	725	50	
				CL600 Flanged	1450	100	
FEQ	1, 2, 3, 4 and 6	25, 50, 80, 100 and 150	WCC and LF2	CL150 Flanged	290	20	II, III and IV
				CL300 Flanged	725	50	
				CL600 Flanged	1450	100	
OSE	1, 2, 3, 4, 6, 8 and 10	25, 50, 80, 100, 150, 200 and 250	WCC and LF2 for all sizes; LCC for DN 200 and DN 250 only	CL150 Flanged	290	20	II, III and IV
				CL300 Flanged	725	50	
				CL600 Flanged	1450	100	
JEQ	1, 2, 3, 4 and 6	25, 50, 80, 100 and 150	WCB and A105	PN16 Flanged	232	16	II, III and IV
				PN25 Flanged	363	25	
				PN40 Flanged	580	40	
				CL150 Flanged	290	20	
				CL300 Flanged	725	50	
				CL600 Flanged	1450	100	
NH	2, 3, 4 and 6	50, 80, 100 and 150	WCC and A105	PN16 Flanged	232	16	II, III and IV
				PN25 Flanged	363	25	
				PN40 Flanged	580	40	
				CL150 Flanged	290	20	
				CL300 Flanged	580	40	
NZ	1, 2, 3, 4 and 6	25, 50, 80, 100 and 150	WCB and A105	CL150 Flanged	290	20	II, III and IV
				CL300 Flanged	725	50	
				CL600 Flanged	1450	100	
NZOS	1, 2, 3 and 4	25, 50, 80 and 100	WCB and A105	CL150 Flanged	290	20	II, III and IV
				CL300 Flanged	725	50	
RS	1 x 1-1/2	25 x 40	A380.0	Thread End	73	5	I

1. Please consult factory for other products not listed in this Bulletin.

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