

DATASHEET

RELIEF VALVES: C10 & C11 SERIES

MODEL CODE						
C11 -	1	1	SS	50P/37P	N	NY

MODEL TYPE	
C10 -	RELIEF VALVE - 9.53mm ORIFICE
C11 -	RELIEF VALVE - 7.14mm ORIFICE

MAXIMUM INLET PRESSURE	
1	C11: 448 Bar (6,500 Psi)
2	C10: 241 Bar (3,500 Psi)

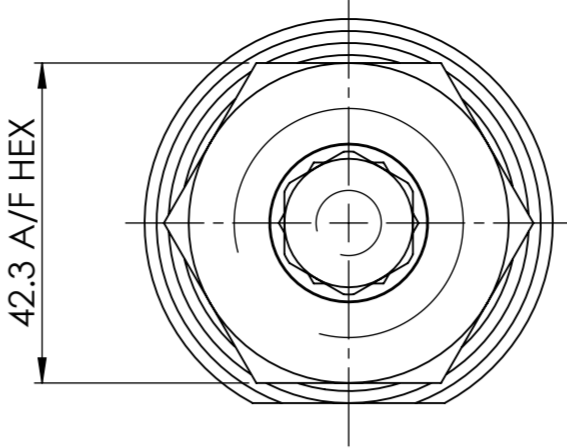
SET PRESSURE RANGE	
1	C11: 69 ~ 448 Bar (1,000 ~ 6,500 Psi)
2	C11: 34 ~ 103 Bar (500 ~ 1,500 Psi)
3	C10: 34 ~ 241 Bar (500 ~ 3,500 Psi)
4	C10: 21 ~ 69 Bar (300 ~ 1,000 Psi)
5	C10: 7 ~ 28 Bar (100 ~ 400 Psi)

MATERIAL	
A	ALUMINIUM
AB	ALUMINIUM BRONZE
BR	BRASS
SS	STAINLESS STEEL

SEAT MATERIAL	
NY	NYLON
PT	PTFE
PE	PEEK

SEAL MATERIAL	
N	NITRILE -25°C TO +120°C
V	VITON -10°C TO +120°C
OTHER SEAL MATERIALS AVAILABLE ON REQUEST	

PORTS	
50P/37P	1/2" BSPP INLET MALE & 3/8" BSPP OUTLET FEMALE



17.0 [0.67]  
A/F HEX

33.8 [1.33] MAX

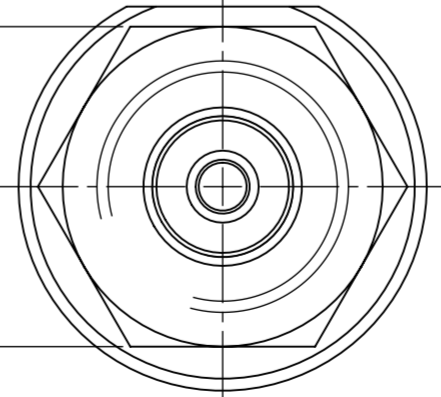
96.0 [3.78]

57.9 [2.28]

19.1 [0.75]

164.3 [6.47]

42.3 [1.67]  
A/F HEX



VALVE INFORMATION	
MODEL	C10 & C11
APPROVALS	CATEGORY IV OF PRESSURE EQUIPMENT DIRECTIVE 2014/68/EU *
WEIGHT	1.5KG / (3.3 LB) (STAINLESS STEEL)
MEDIUM	GAS
LEAKTIGHT	WHEN 90% OF SET PRESSURE IS APPLIED
ORIFICE SIZE	C10: 9.53mm, C11: 7.14mm
REPEATABILITY	WITHIN +/-5% OF SET PRESSURE
MAX OUTLET PRESSURE	69 BAR (1000PSI) NOTE: OUTLET PORT PRESSURE AFFECTS SET PRESSURE

\* APPROVAL TO CATEGORY IV OF PRESSURE EQUIPMENT DIRECTIVE 2014/68/EU APPLIES ONLY TO THE STAINLESS STEEL VARIANT.

SET PRESSURE  
ADJUSTING SCREW

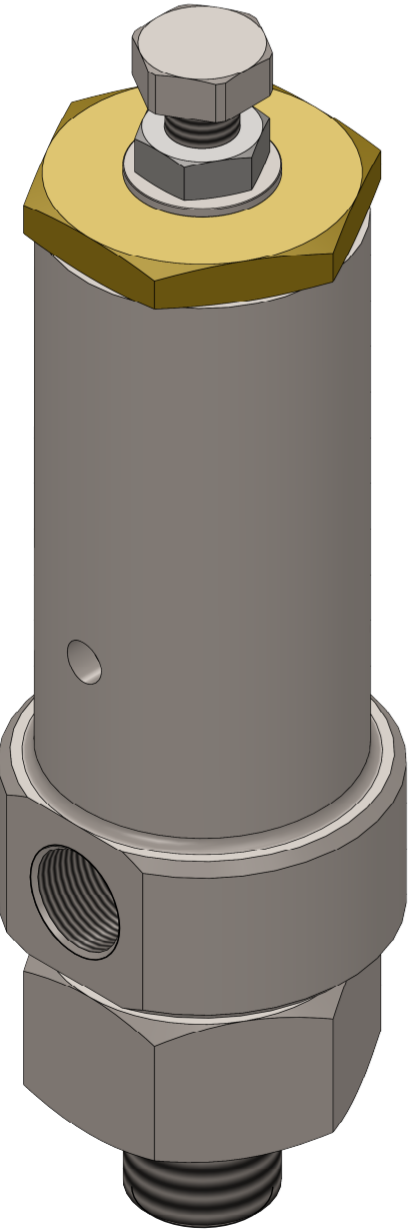
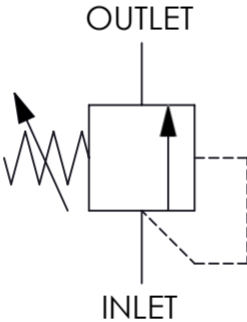
OUTLET

INLET

23.8 [0.94]

- FOR OXYGEN AND BREATHING AIR APPLICATIONS USE CODE: **C100X / C110X**
- FOR HYDROGEN APPLICATIONS USE CODE: **C10H2 / C11H2**

CIRCUIT SYMBOL



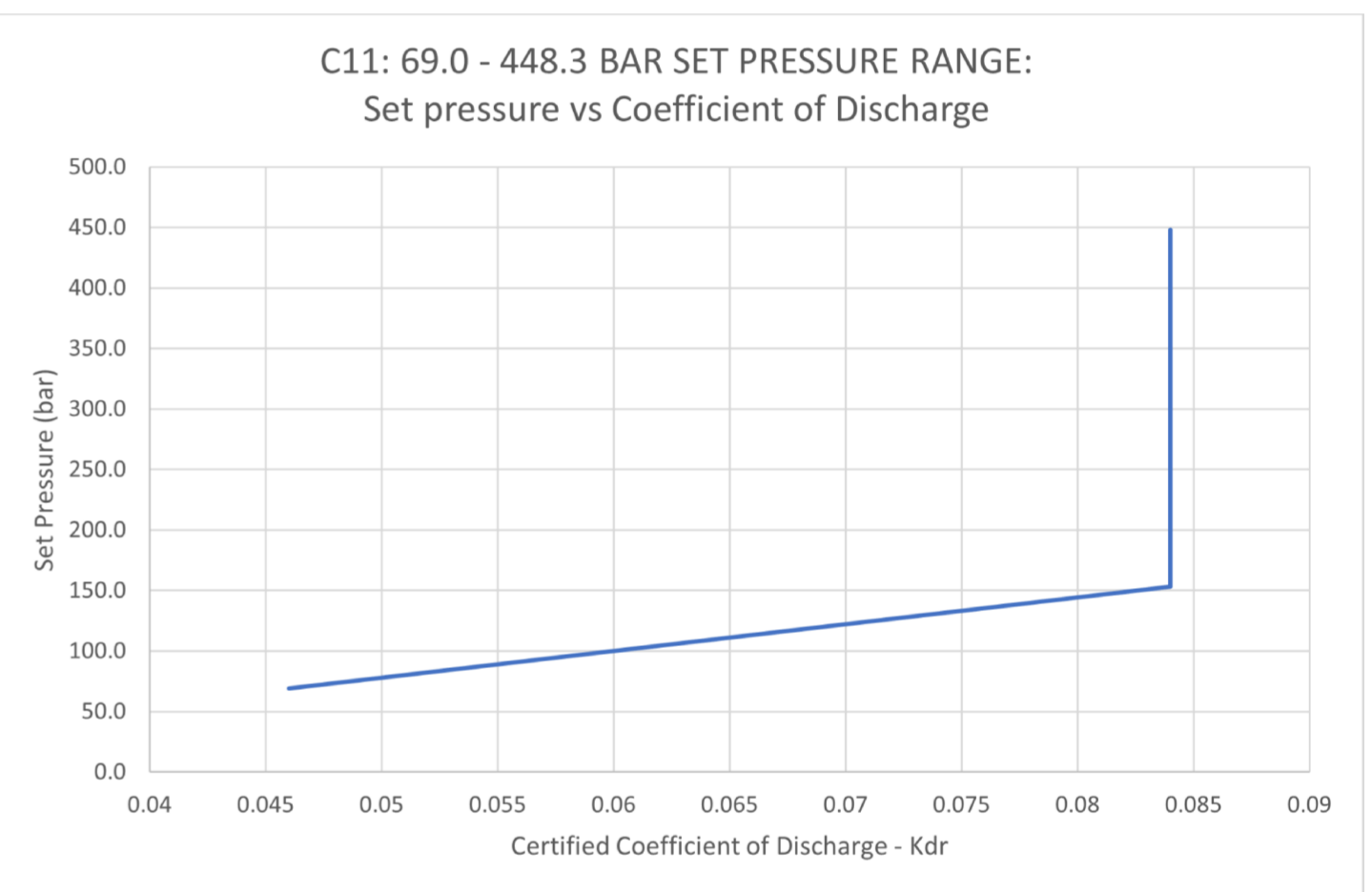
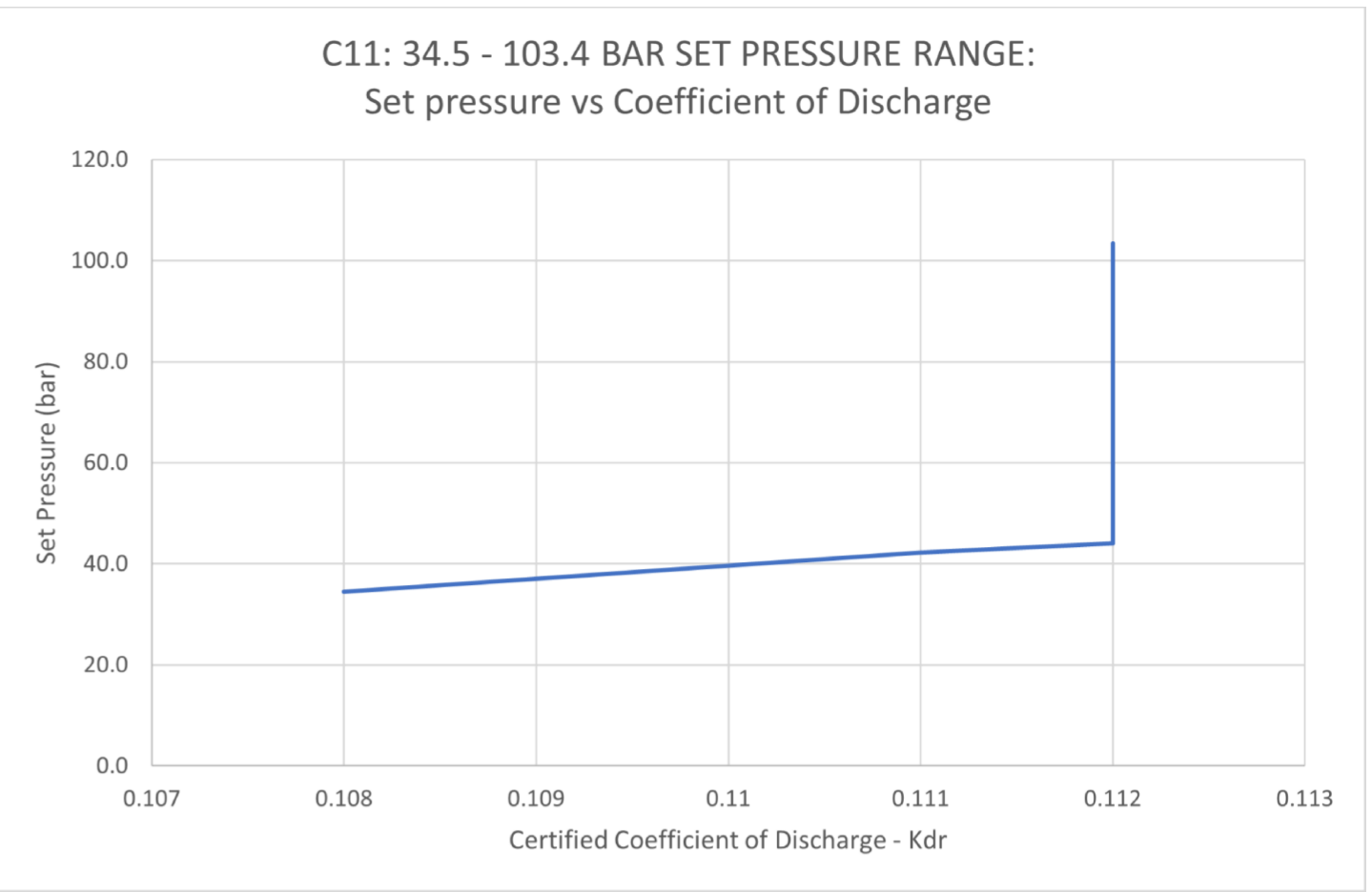
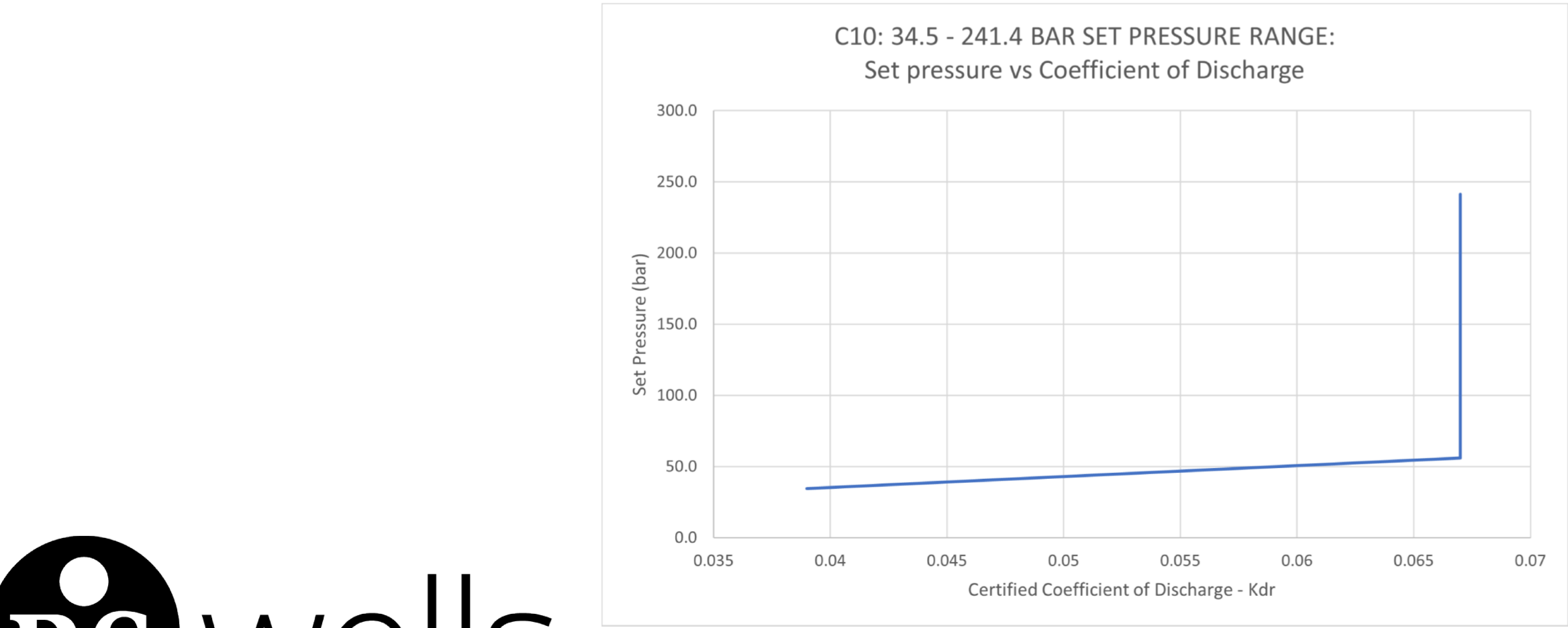
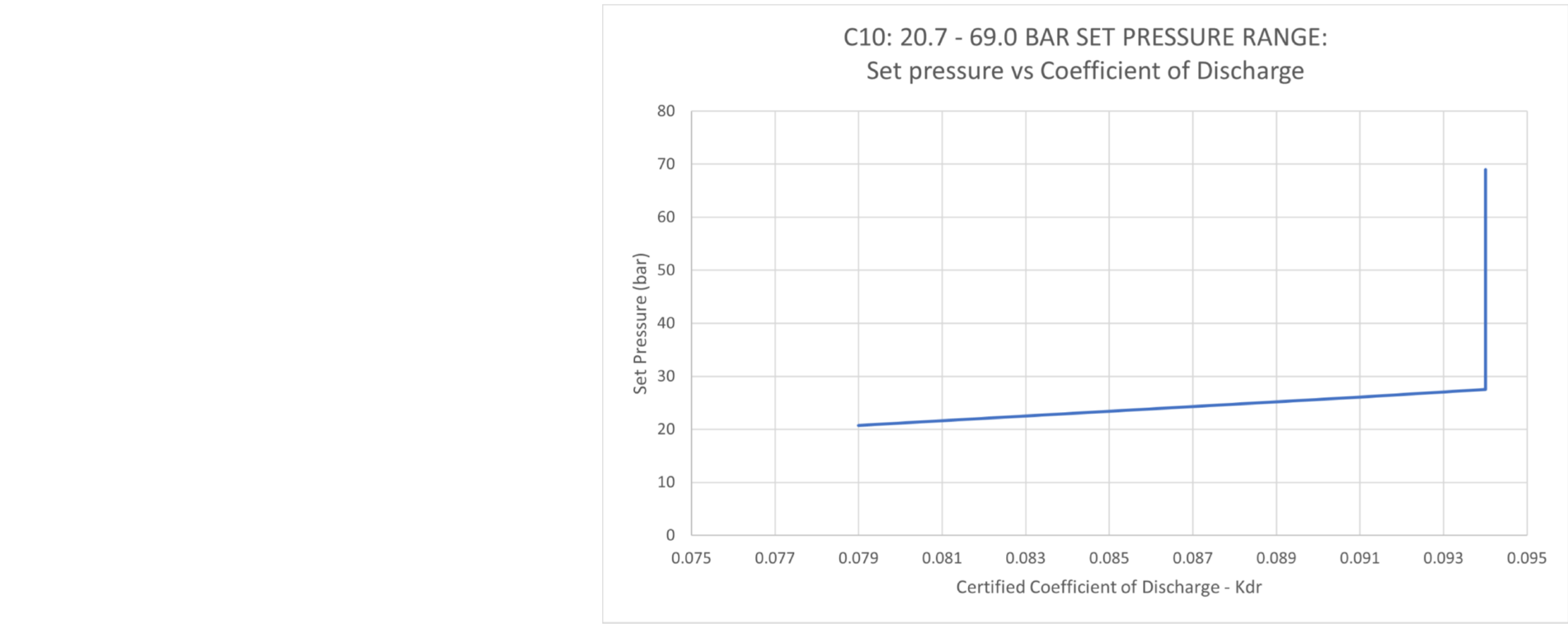
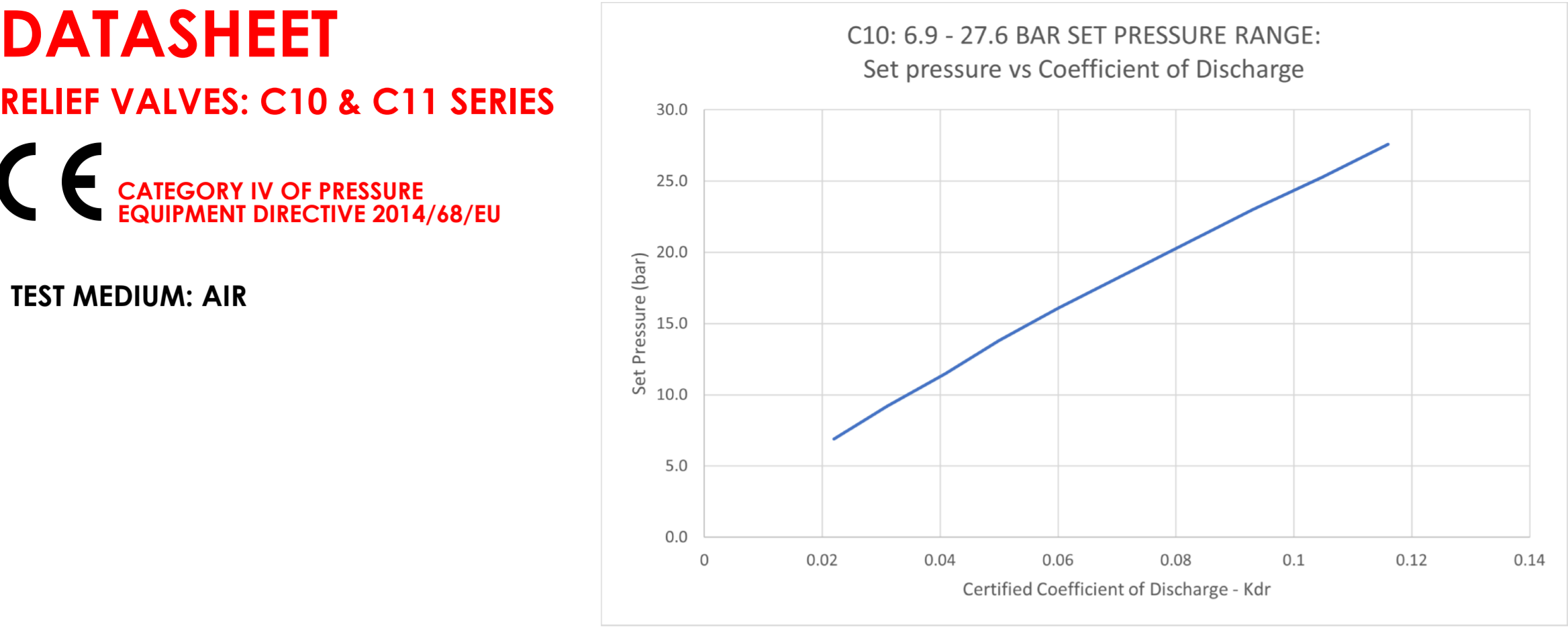
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DRAWN J.PHELAN	SHEET 1 OF 2		DRAWING SIZE A2	DRAWING SCALE 1:2	DRAWING NUMBER DS0015		
DATE 01/09/20	ISSUE 2						

# DATASHEET

## RELIEF VALVES: C10 & C11 SERIES



TEST MEDIUM: AIR



*The Kdr value may be used to calculate discharge capacity in accordance with ISO 4126. We recommend contacting us with system details to confirm suitability.*



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DRAWN	J.PHELAN	SHEET 2 OF 2			3RD ANGLE PROJECTION	DRAWING SIZE	DRAWING SCALE	DRAWING NUMBER			
DATE	01/09/20	ISSUE	2			A2	1:2	DS0015			