

ASSEMBLY PROCEDURE:

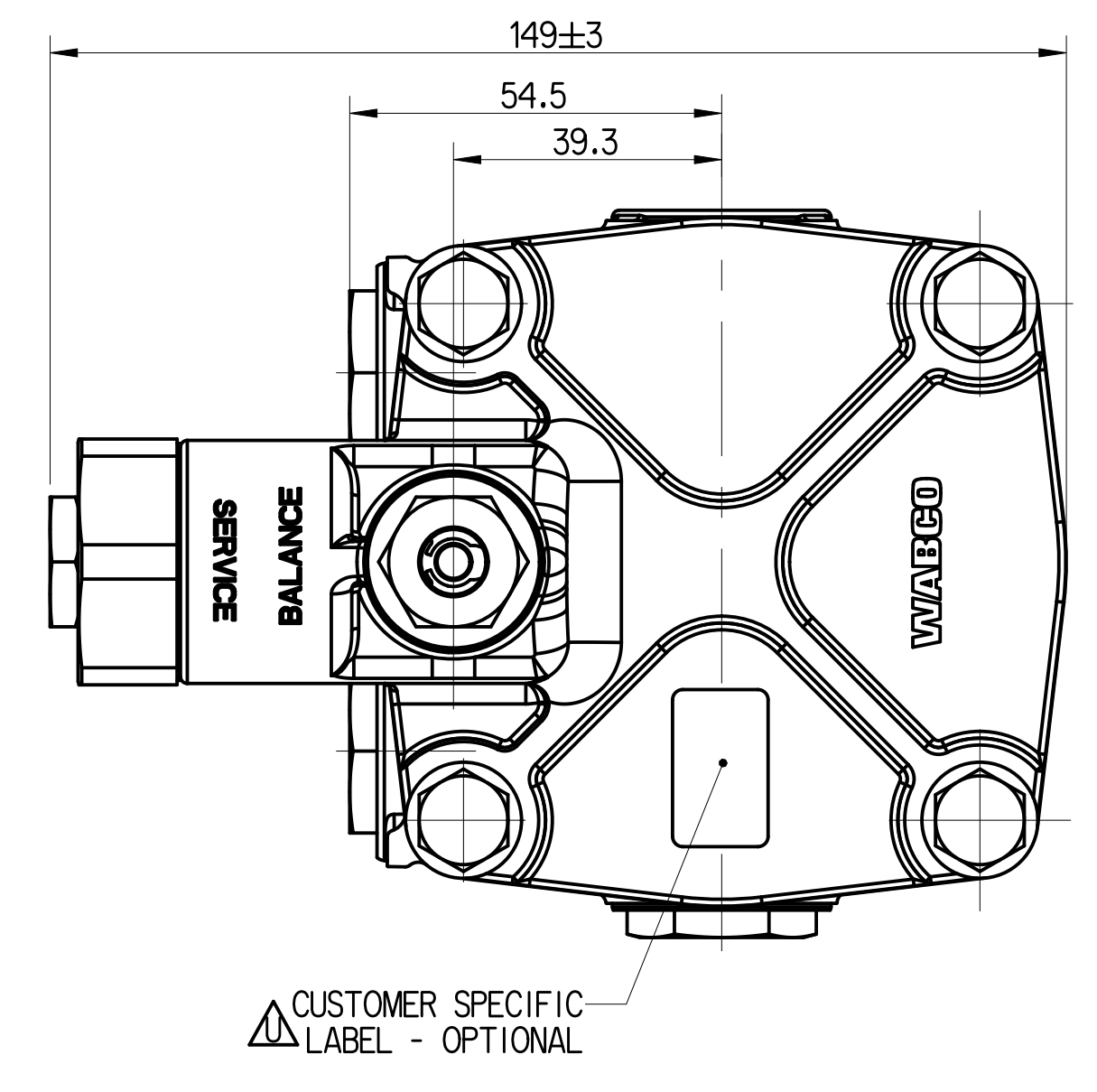
(a) THE SPRING ELEMENT IS INSERTED INTO THE CHAMBER UNDER THE THREAD ROOT OF THE CONNECTION BORE (a) AND (b).

(b) THE RETAINING CLIP IS INTRODUCED SO THAT IT RESTS FLAT ON THE THREAD ROOT (b) AND (c). THE SPRING ELEMENT AND RETAINING CLIP ARE SYMMETRICAL.

(c) THE MALE FITTING PRE-ASSEMBLED WITH THE PRE-GREASED O-RING TO SEAL THE THREAD IS SCREWED BY HAND INTO THE TAPPED BORE (c) AND TIGHTENED.

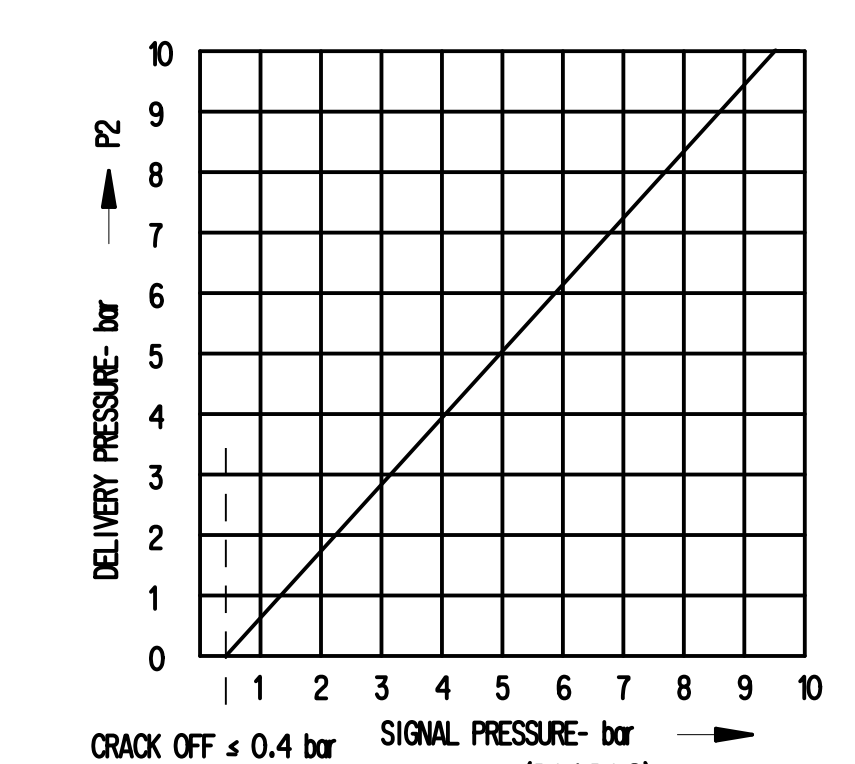
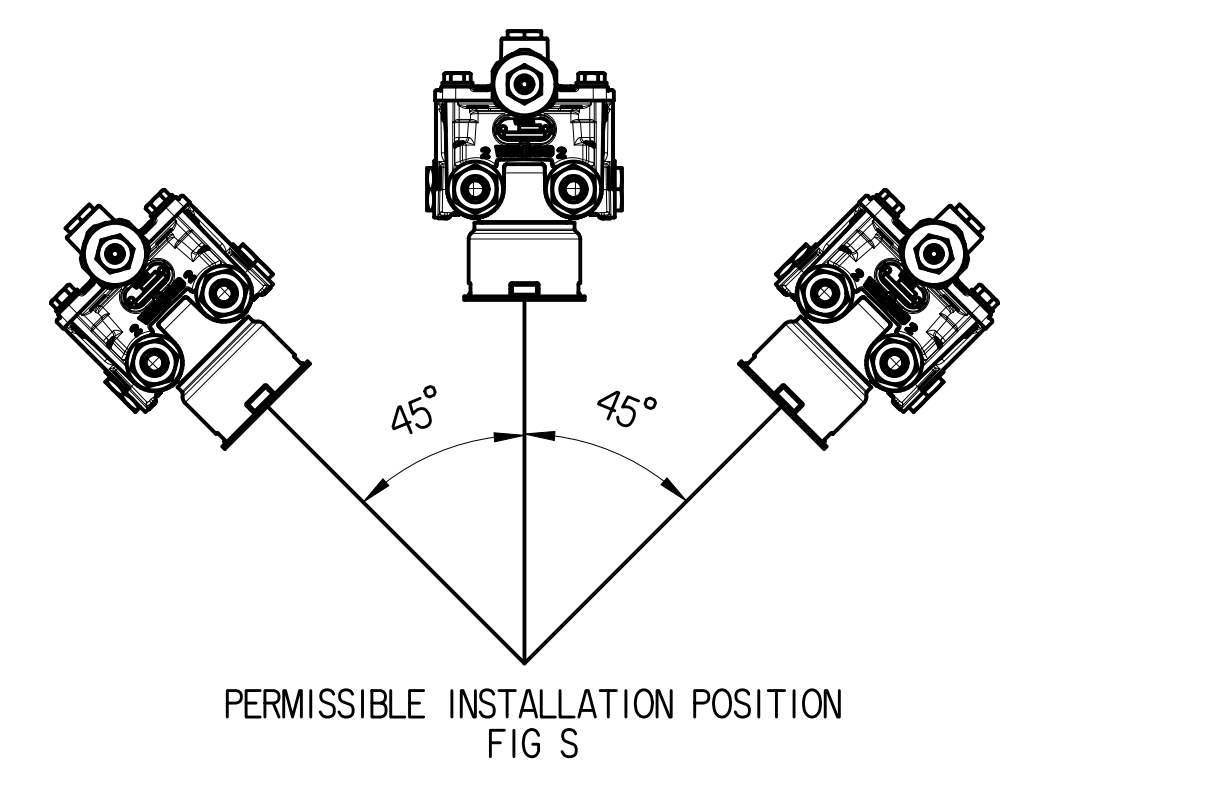
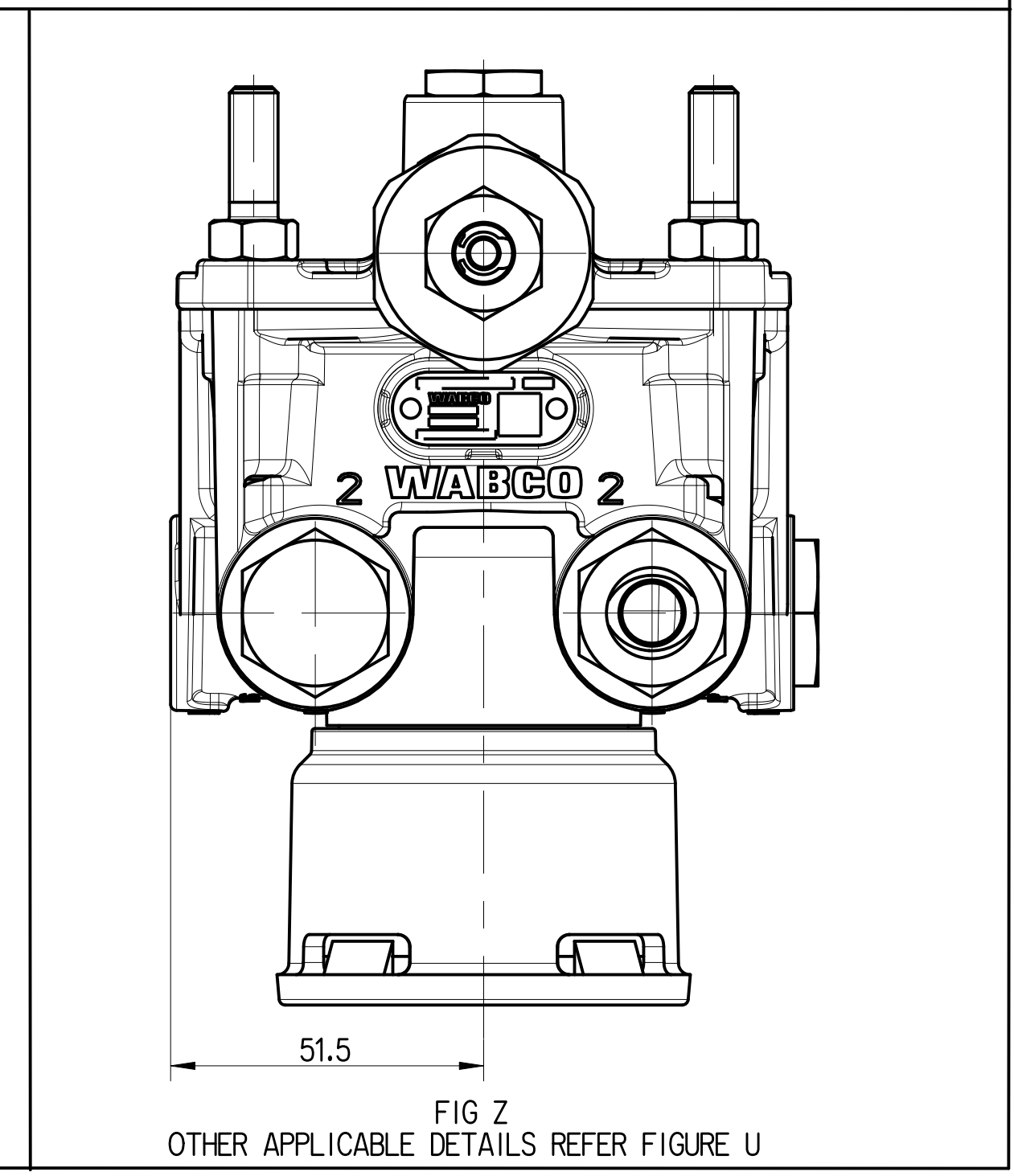
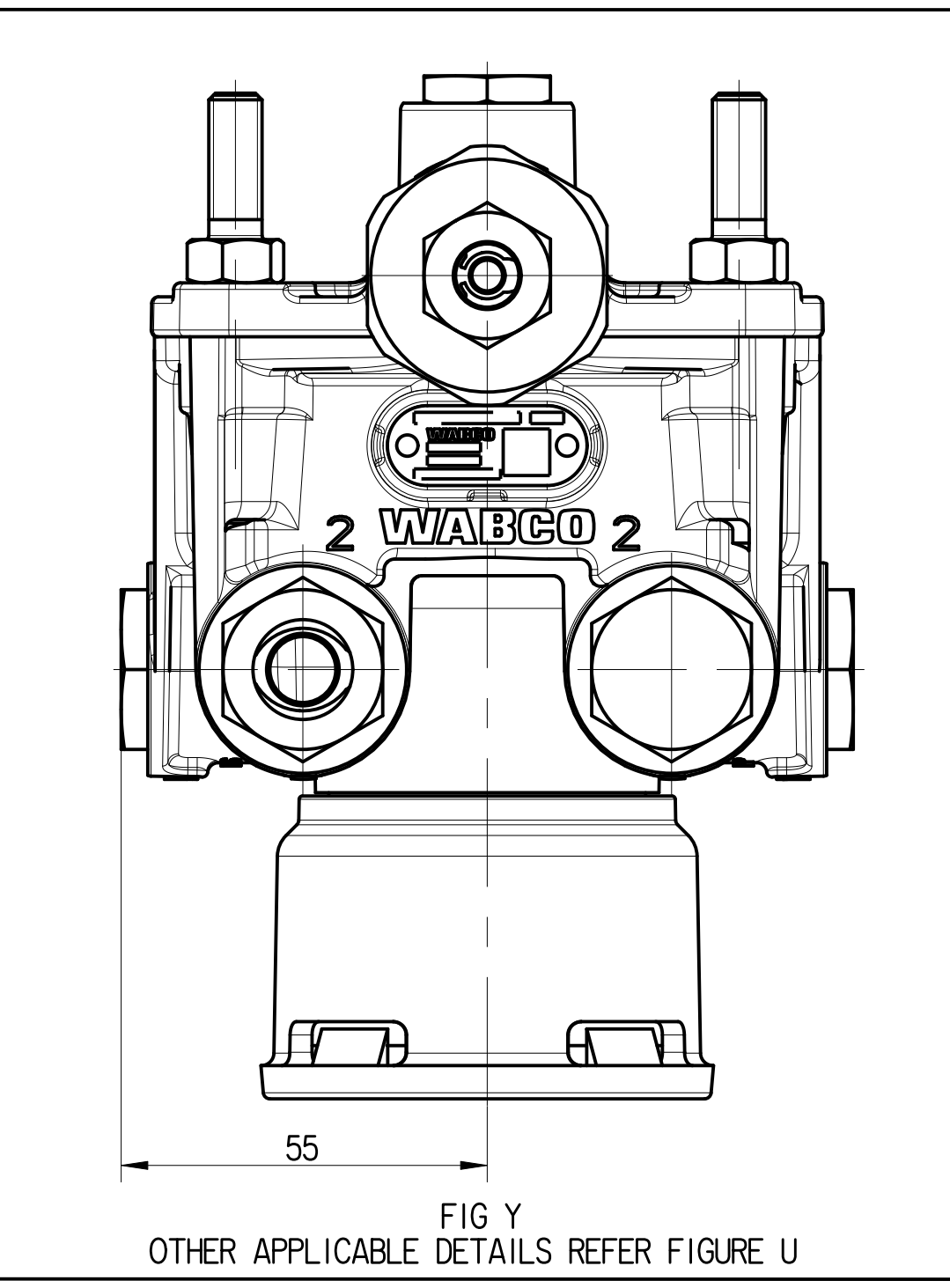
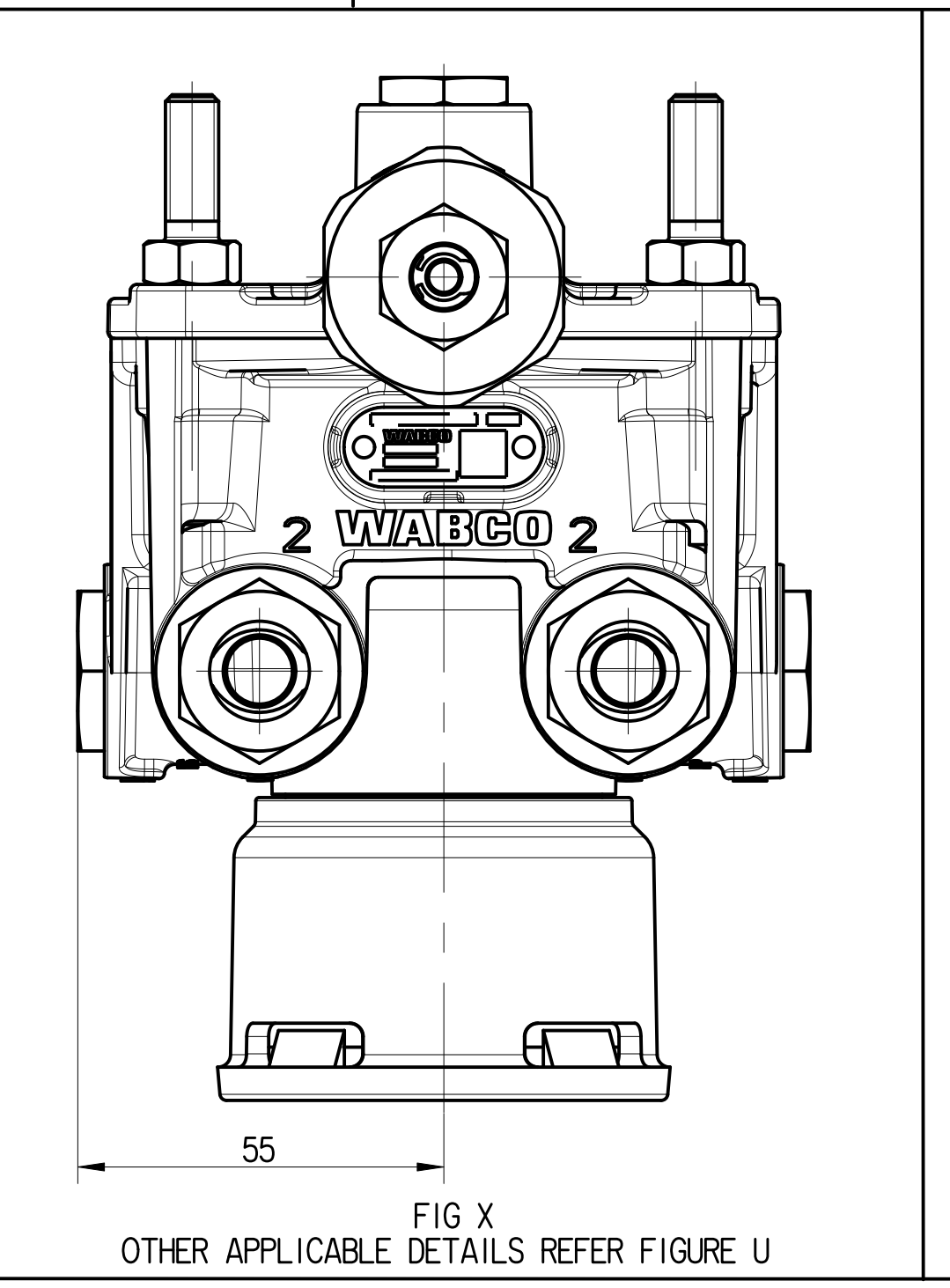
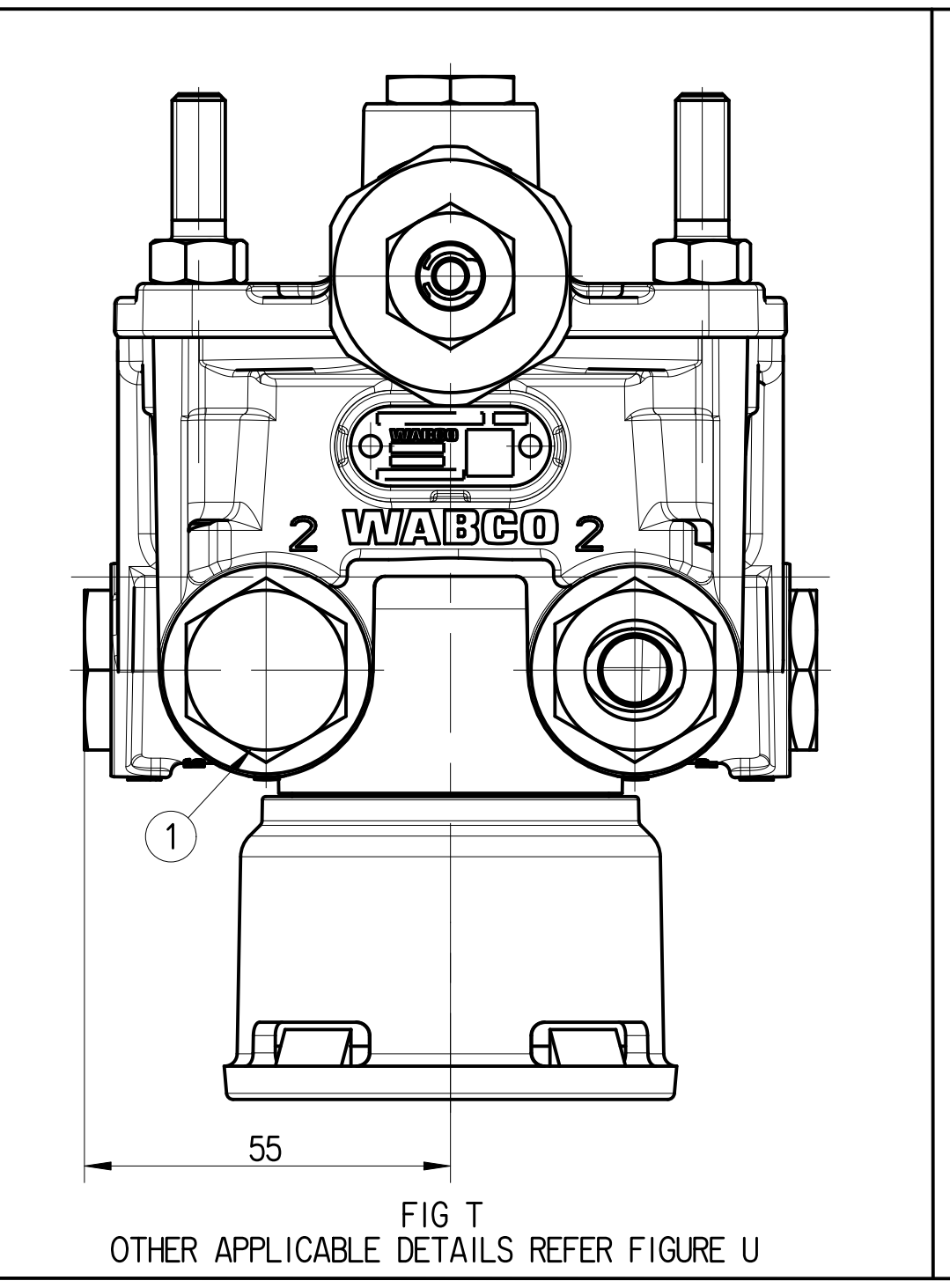
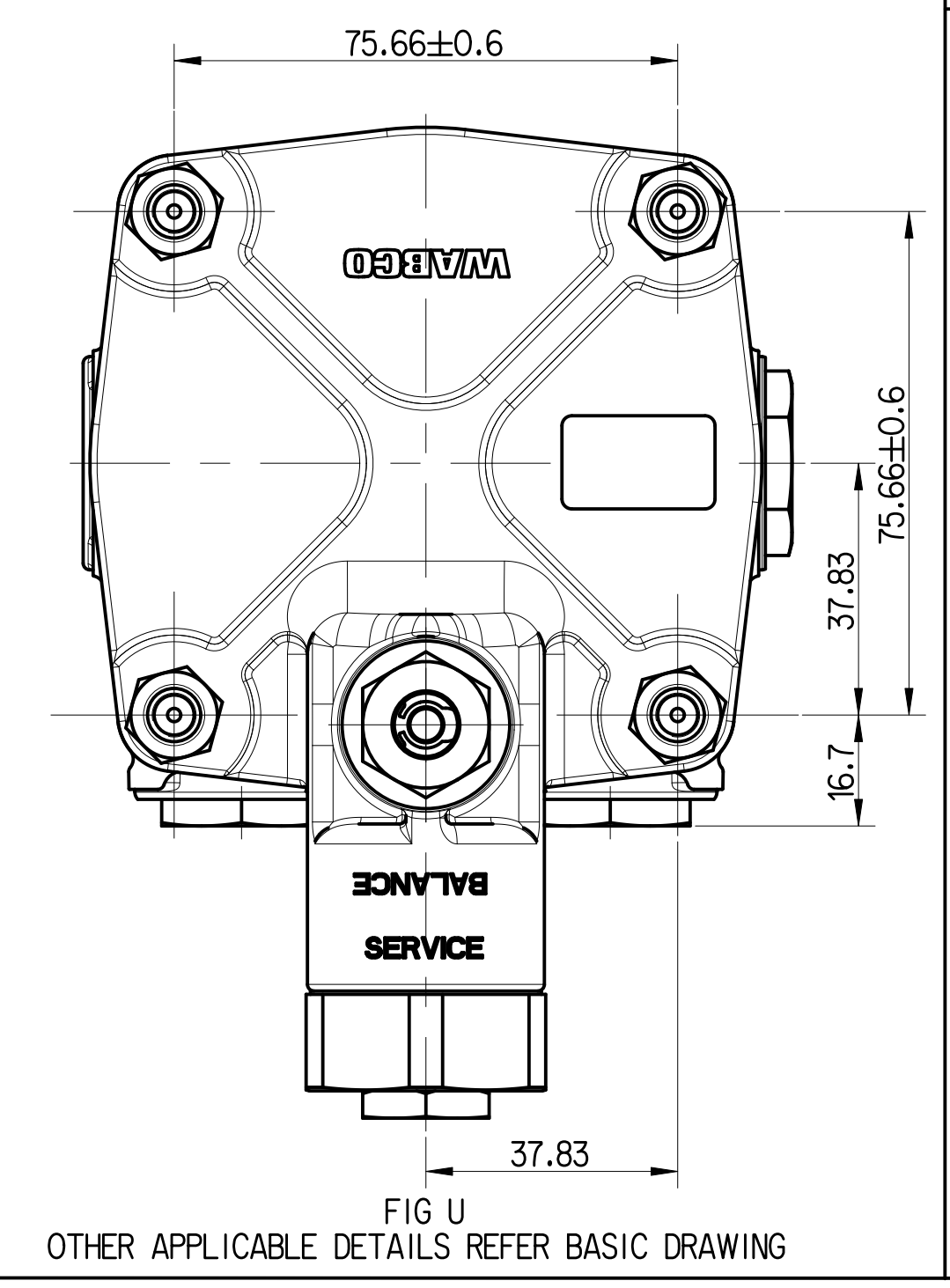
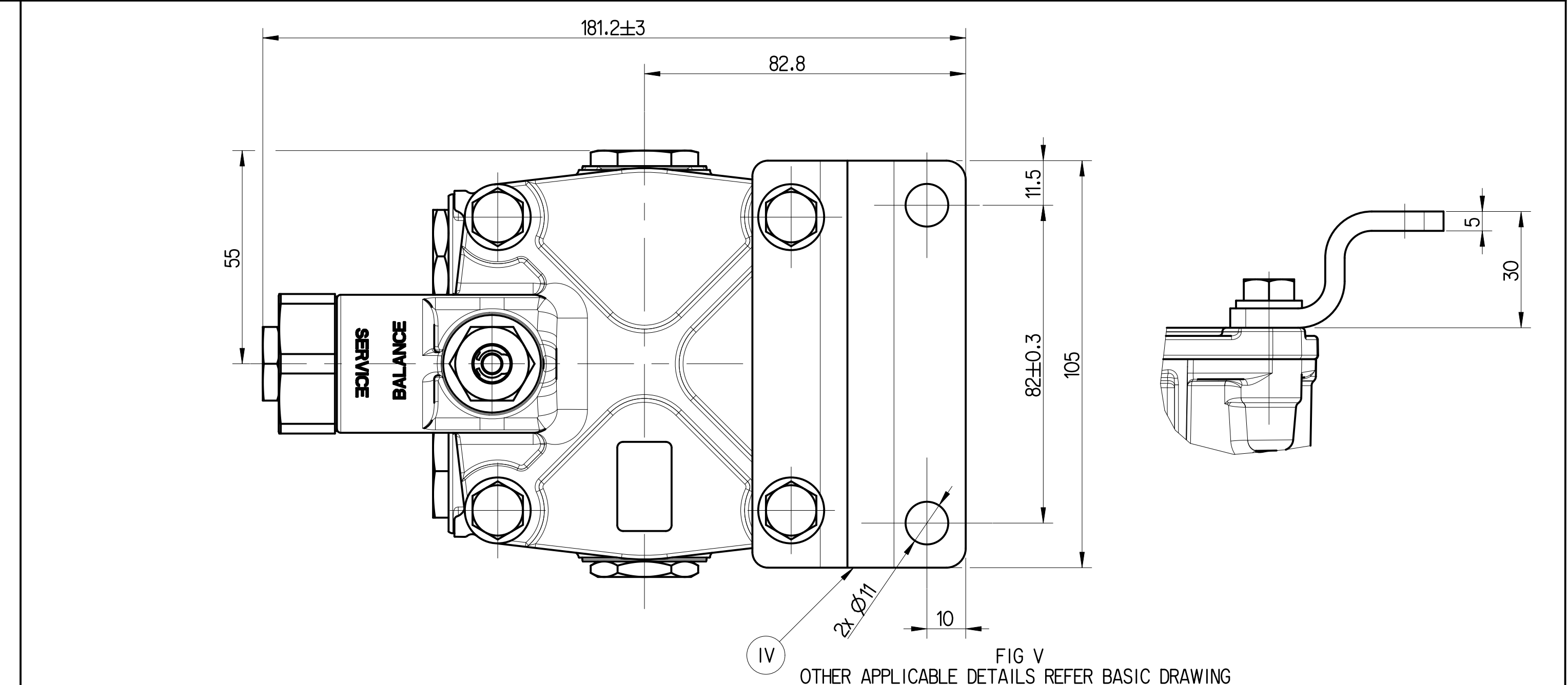
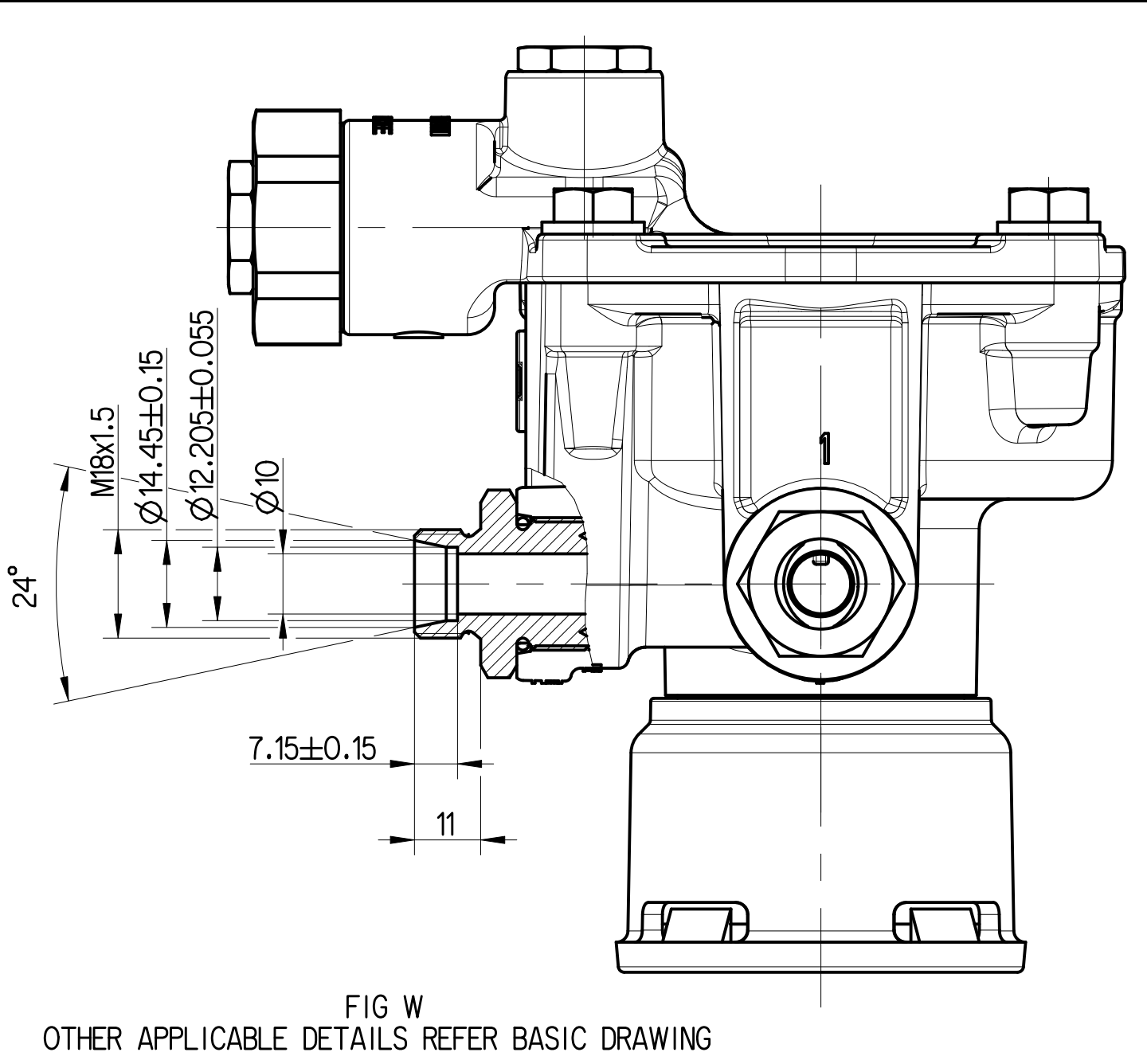
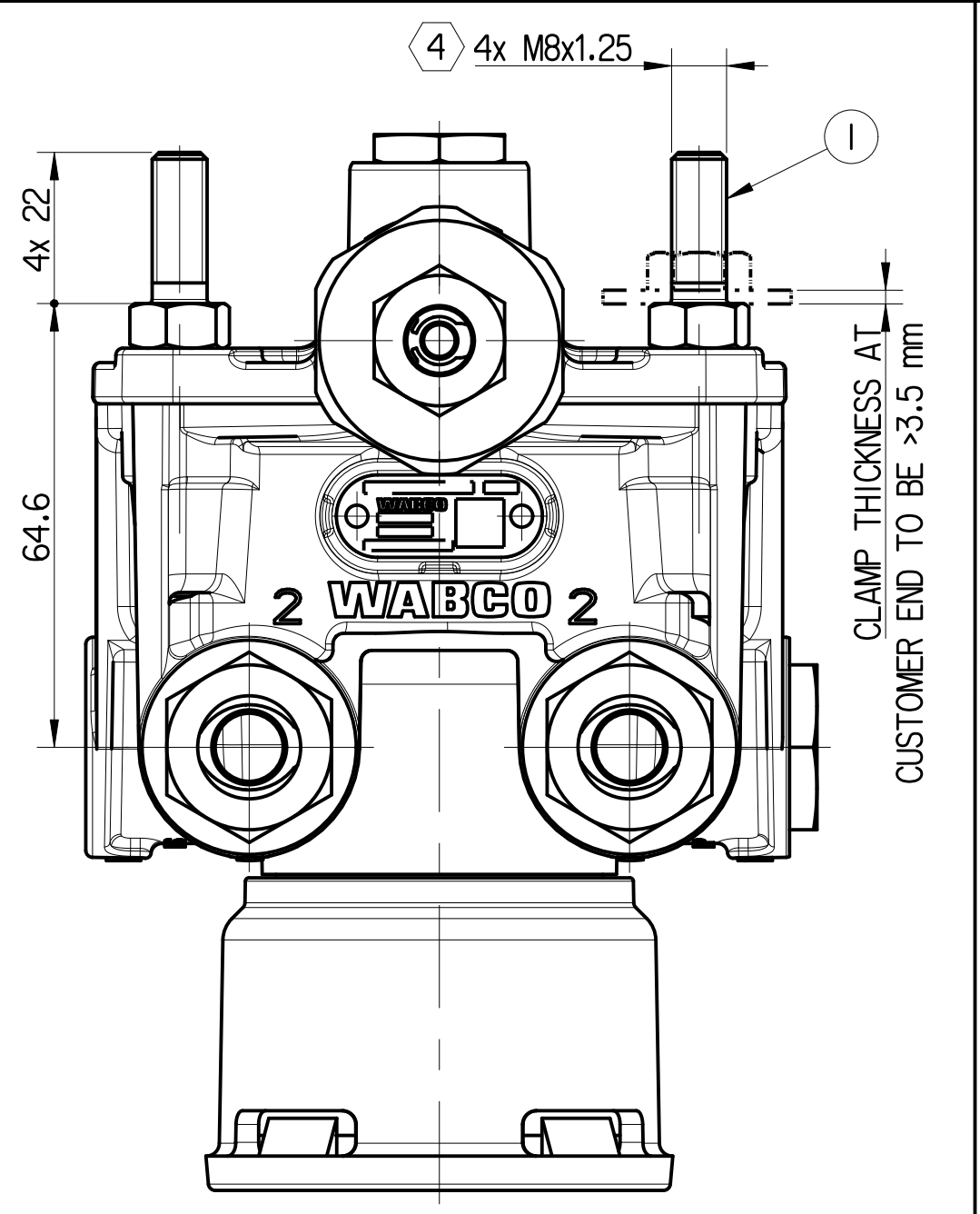
DESCRIPTION	M22x1.5 VOSS PART No.	M16x1.5 VOSS PART No.
MALE NUT WITH O-RING	00 62 03 99 00	00 62 02 99 00
RETAINER CLIP	00 62 01 90 00	00 62 00 90 00
SPRING ELEMENT	00 62 05 99 00	00 62 04 99 00

SPRING ELEMENT
RETAINING CLIP
MALE NUT WITH O-RING



WABCO PART NO.	LH SUPPLY CONNECTION	RH SUPPLY CONNECTION	LH DELIVERY CONNECTION	RH DELIVERY CONNECTION	SERVICE/BALANCE CONNECTION	FIG. REFERENCE	WEIGHT (KG)	CUSTOMER PART NO.
M306090	PORT BLOCKED AS-CAST	M22x1.5 TO SUIT VOSS PLUG IN SYSTEMS 230 ①	M22x1.5 TO SUIT VOSS PLUG IN SYSTEMS 230 ①	M22x1.5 TO SUIT VOSS PLUG IN SYSTEMS 230 ①	M16x1.5 TO SUIT VOSS PLUG IN SYSTEMS 230 ②	BASIC DRAWING	1.2	NA
M307540	M22x1.5 TO SUIT VOSS PLUG IN SYSTEMS 230 ①	PORT PLUGGED	M22x1.5 TO SUIT VOSS PLUG IN SYSTEMS 230 ①	M22x1.5 TO SUIT VOSS PLUG IN SYSTEMS 230 ①	M16x1.5 TO SUIT VOSS PLUG IN SYSTEMS 230 ②	BASIC DRAWING	1.2	NA
M307220	M22x1.5 TO SUIT VOSS PLUG IN SYSTEMS 230 ①	PORT PLUGGED	PORT PLUGGED	M22x1.5 TO SUIT VOSS PLUG IN SYSTEMS 230 ①	M16x1.5 TO SUIT VOSS PLUG IN SYSTEMS 230 ②	FIGURE V	1.45	NA
473 017 028 0	PORT BLOCKED AS-CAST	M22x1.5 TO SUIT VOSS PLUG IN SYSTEMS 230 ①	M18x1.5, HEX. 27 ③	M22x1.5 TO SUIT VOSS PLUG IN SYSTEMS 230 ①	M16x1.5 TO SUIT VOSS PLUG IN SYSTEMS 230 ②	FIGURE W	1.24	NA
473 017 037 0	PORT BLOCKED AS-CAST	M22x1.5 TO SUIT VOSS PLUG IN SYSTEMS 230 ①	M22x1.5 TO SUIT VOSS PLUG IN SYSTEMS 230 ①	M22x1.5 TO SUIT VOSS PLUG IN SYSTEMS 230 ①	M16x1.5 TO SUIT VOSS PLUG IN SYSTEMS 230 ②	FIGURE U	1.26	NA
473 017 039 0	M22x1.5 TO SUIT VOSS PLUG IN SYSTEMS 230 ①	PORT PLUGGED	PORT PLUGGED	M22x1.5 TO SUIT VOSS PLUG IN SYSTEMS 230 ①	M16x1.5 TO SUIT VOSS PLUG IN SYSTEMS 230 ②	FIGURE T	1.2	NA
473 017 041 0	M22x1.5 TO SUIT VOSS PLUG IN SYSTEMS 230 ①	M22x1.5 TO SUIT VOSS PLUG IN SYSTEMS 230 ①	M22x1.5 TO SUIT VOSS PLUG IN SYSTEMS 230 ①	M22x1.5 TO SUIT VOSS PLUG IN SYSTEMS 230 ①	M16x1.5 TO SUIT VOSS PLUG IN SYSTEMS 230 ②	FIGURE X	1.24	NA
473 017 044 0	M22x1.5 TO SUIT VOSS PLUG IN SYSTEMS 230 ①	M22x1.5 TO SUIT VOSS PLUG IN SYSTEMS 230 ①	M22x1.5 TO SUIT VOSS PLUG IN SYSTEMS 230 ①	PORT PLUGGED	M16x1.5 TO SUIT VOSS PLUG IN SYSTEMS 230 ②	FIGURE Y	1.26	NA
473 017 050 0	PORT BLOCKED AS-CAST	M22x1.5 TO SUIT VOSS PLUG IN SYSTEMS 230 ①	PORT PLUGGED	M22x1.5 TO SUIT VOSS PLUG IN SYSTEMS 230 ①	M16x1.5 TO SUIT VOSS PLUG IN SYSTEMS 230 ②	FIGURE Z	1.2	NA

S.No.	NOTES	
1	PRODUCT FUNCTION AND RELIABILITY	
1.1	WORKING MEDIUM	AIR
1.2	NORMAL WORKING PRESSURE	10 bar
1.3	MAXIMUM WORKING PRESSURE (TEMPORARILY)	13 bar
1.4	CRACK OFF PRESSURE	≤ 0.4 bar
1.5	NOMINAL FLOW DIAMETER (WITH VOSS CONNECTION)	10 mm
1.6	NOISE LEVEL FITTED WITH SILENCER	≤ 72 dB(A)
1.7	THERMAL RANGE OF APPLICATION	-40° C TO +80° C
1.8	INSTALLATION POSITION	REFER FIGURE S
1.9	CORROSION RESISTANCE	240 HOURS OF NSS.
2	QUALITY COMPLIANCE TESTS WILL BE CARRIED OUT REGULARLY AS PER PS CLAUSE No. 16	
3	SERVICE LIFE TO FIRST OVERHAUL IF FITTED AS PER RECOMMENDED LAYOUT AND CONNECTIONS 3 YEARS / 300 000 km WHICHEVER IS EARLIER	
4	OPEN PORTS/CONNECTIONS AND STUDS ARE FITTED WITH CLOSURE PLUGS AND CLOSURE SLEEVES FOR STORAGE AND TRANSIT PURPOSES	



CODE	MATERIAL	TREATMENT
IXI	STEEL	NO TREATMENT
IXII	CAST IRON	PLATED
IXIII	STEEL	ZINC IRON PLATED
IXIV	CAST IRON	NO TREATMENT
IXV	ZINC ALLOY	ANODISED
IXVI	PLASTIC	NO TREATMENT
IXVII	RUBBER	NO TREATMENT
IXVIII	STAINLESS STEEL	NO TREATMENT
IXIX	BRASS	NO TREATMENT
IXX	ZINC ALLOY	CHROMATED
IXXI	ALUMINIUM ALLOY	ANODISED
IXXII	ALUMINIUM ALLOY	CHROMATED
IXXIII	CAST IRON	PAINTED
IXXIV	STEEL	POWDER COATED
IXXV	STEEL	PAINTED
IXXVI	STEEL	PHOSPHATED
IXXVII	STEEL	ZINC PLATED
IXXVIII	MATERIAL	SURFACE PROTECTION

1. SUPPLY
2. DELIVERY
3. EXHAUST
41. SERVICE
42. BALANCE

	①	②	③	④
THREAD TYPE	M22x1.5, HEX. 24 TO SUIT VOSS PLUG IN SYSTEMS 230	M16x1.5, HEX. 19 TO SUIT VOSS PLUG IN SYSTEMS 230	M18x1.5, HEX. 27 CUSTOMER TO ENSURE TORQUE	M8x1.25, HEX. 13 (NUT CLASS 8) CUSTOMER TO ENSURE TORQUE
PERMISSIBLE TORQUE	10±1 N m	10±1 N m	31.5±3 N m	22.5±2.5 N m

General Specifications: ISO 8016, ED-334-1, Size ISO 14405 LP

Further Technical Data: PSSC 225C

Doc. Code: 030

General Tolerances: ISO 201

Range of nominal dimensions in mm

Class: 1: ±0.05, 2: ±0.1, 3: ±0.15, 4: ±0.2, 5: ±0.3, 6: ±0.4, 7: ±0.5, 8: ±0.6, 9: ±0.7, 10: ±0.8, 11: ±0.9, 12: ±1.0, 13: ±1.2, 14: ±1.5, 15: ±2.0, 16: ±2.5, 17: ±3.0, 18: ±4.0, 19: ±5.0, 20: ±6.0, 21: ±8.0, 22: ±10.0

Dimensions in mm

Material No.: 100306090

Date of first issue: 2016-09-15

Doc. Code: 030

Sheet: 1 of 10

2026-03-18

2026-03-19

Prasanna

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R14 RELAY VALVE

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11. Tolerances: Class: H7/g6, H8/g7, H9/g8, H10/g9, H11/g9, H12/g9, H13/g9, H14/g9, H15/g9, H16/g9, H17/g9, H18/g9, H19/g9, H20/g9, H21/g9, H22/g9