



ОТСЕЧНЫЕ ФИЛЬТРЫ

MRRV

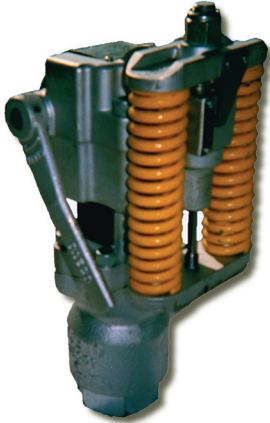
ТЕХНИЧЕСКИЕ ХАРАКТЕРИСТИКИ

По вопросам продаж и поддержки обращайтесь:

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Астана +7(7172)727-132	Калуга (4842)92-23-67	Омск (3812) 21-46-40	Ставрополь (8652)20-65-13
Астрахань (8512) 99-46-04	Кемерово (3842)65-04-62	Орел (4862)44-53-42	Сургут (3462) 77-98-35
Барнаул (3852) 73-04-60	Киров (8332)68-02-04	Оренбург (3532)37-68-04	Тверь (4822)63-31-35
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Manual Reset Relief Valve



Reset Relief Valve (RRV) Overview

The RRV automatically snaps to a full open position when the predetermined pressure is exceeded or can be manually opened by simply pressing the manual release button. The position of the release button indicates at a glance whether the valve is open or closed. The RRV is designed with a pressure setting indicator (available in metric units) which can be adjusted to any setting within the operating range by simply turning a nut on the top of the valve.

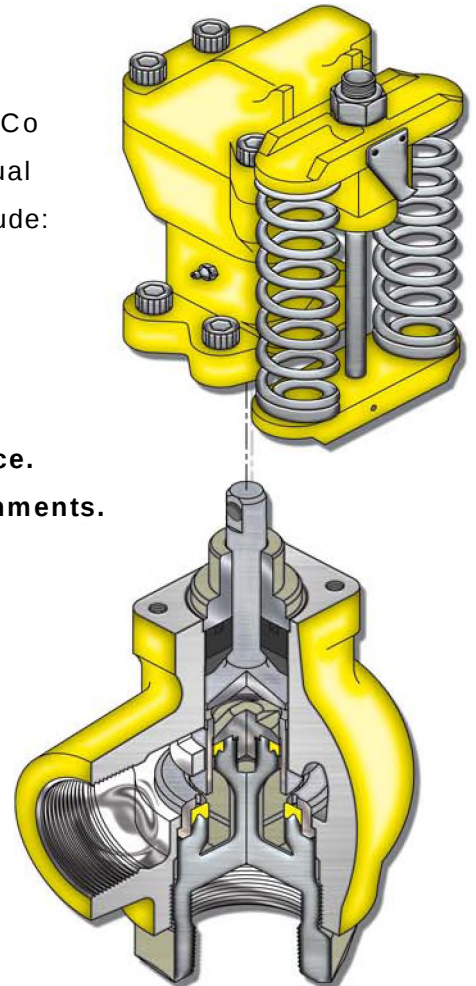
RRV Features & Benefits

Release pressure setting is not affected by vibration during operation.

Utilizes stainless steel piston and cadmium-plated sub for improved corrosion resistance.

3" Type "RR" 400-5,000 PSI manual reset relief valve has the same bonnet and all the features of our 2" model & more. Comparable to Cameron Type "B" valve, OTECO's 3" Type RR manual reset relief valve has benefits over other competitors, features include:

- + PSI, Bar & KPa pressure ranges available.
- + Operating range from 400 to 5,000 PSI (28-350 Bar).
- + 5 DNV Type Approved models.
- + Polyethylene seals for longer life and corrosion resistance.
- + Large selection of polymer seals for varying fluid environments.
- + Investment casting bonnet and parts for increased accuracy & repeatability.
- + Integral outlet end connections (no welding or bolting).
- + Single chucking, high precision HMC machined parts.
- + Line Pipe, Flanged and FMC WecoQ Hammer Union end connections.
- + 10,000 PSI hydrostatic tested subs.
- + Standard and Sour Gas (H₂S) service type available.



3" 3,000-8,000 PSI (206-552 Bar) manual reset relief valve sets the bar for strength and performance. Both top cover and sub are extra heavy flanged for safety. Bonnet base has been modified for strength & rigidity giving it more reliable operation. ABS and DNV Design Assessment & many other features including:

- + Single piece subs for improved sealing and reduced part count.

Integral outlet end connections (no welding or bolting).

Single chucking, high precision HMC machined parts.

Heavy duty bonnet ensures better operation at high pressures than competitors.

Polyethylene and flouropolymer main seals.

12 ABS Design Assessed models.

- + 6 DNV Design Assessed models.

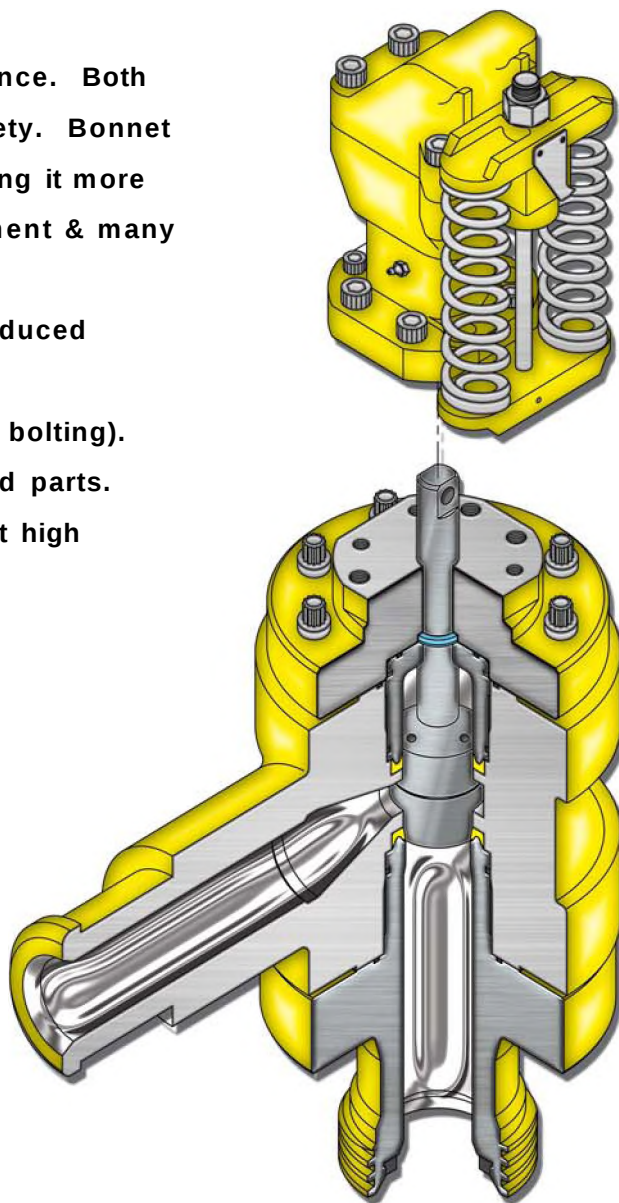
- + Internal surfaces Xylan coated for corrosion resistance and longer life.

3" Figure 1502 FMC Weco0 end connections.

No load bearing threaded connections.

Standard and Sour Gas (H₂S) service.

Hydraulically balanced piston.



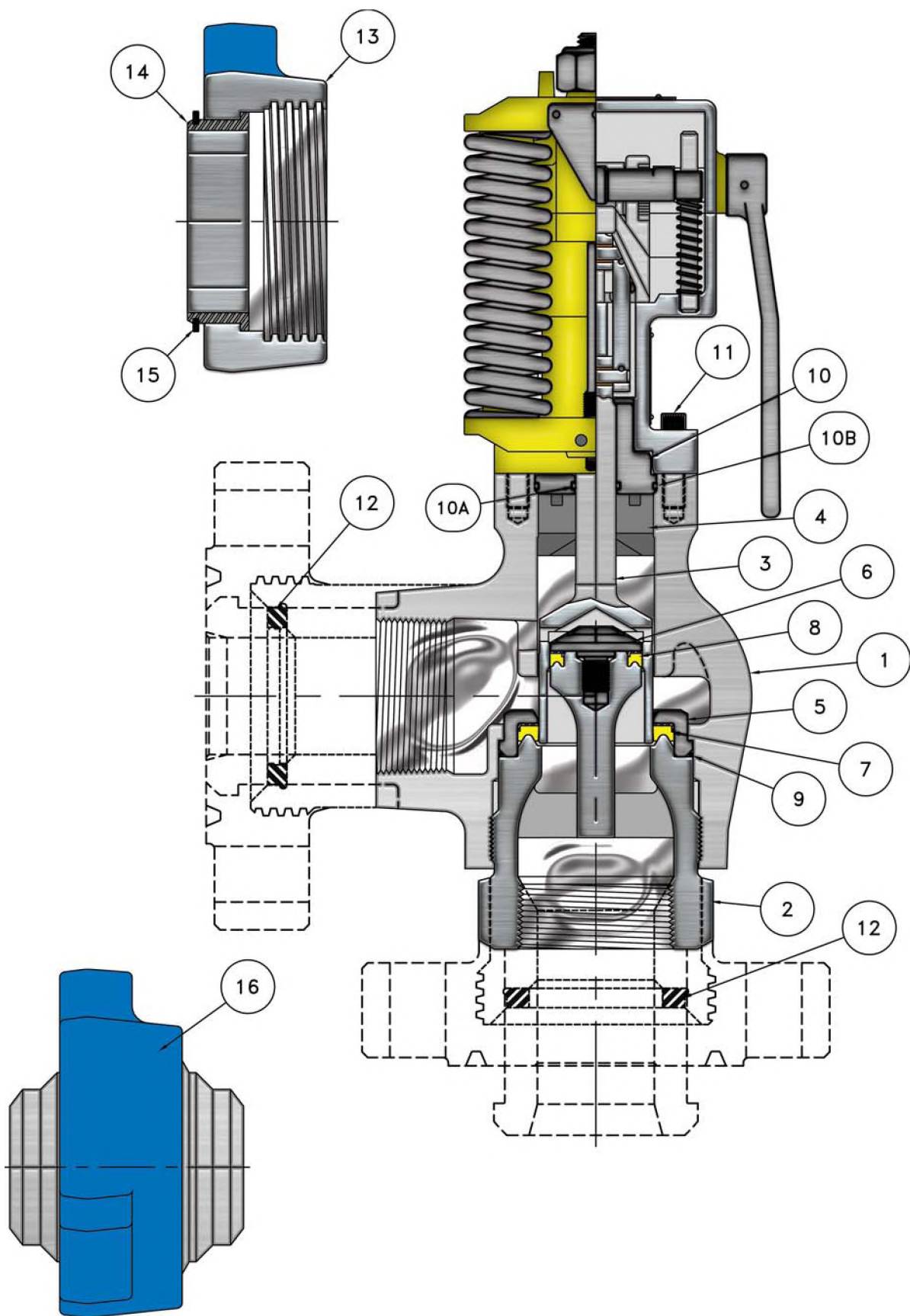
OTECO RESET RELIEF VALVE GENERAL INFORMATION

VALVE SIZE	MAX. PRESSURE		INLET & OUTLET	FLOW AREA		Weight		TEMP. RATING	
	PSI	(Bar)	END CONNECTIONS	inch ²	(cm ²)	Lbs.	(kg)	Fahrenheit	(Celsius)
2"	5,000	(345)	2" LPT	1.8	(11.6)	50	(22.6)	-20 to 250	-29 to 121
2"	5,000	(345)	2" 1502 Weco	1.8	(11.6)	56	(25.4)	-20 to 250	-29 to 121
2"	5,000	(345)	2" Flanged	1.8	(11.6)	70	(31.7)	-20 to 250	-29 to 121
3"	5,000	(345)	3" LPT	4.2	(27.1)	105	(47.6)	-20 to 250	-29 to 121
3"	5,000	(345)	3" 1502 Weco	4.2	(27.1)	120	(54.4)	-20 to 250	-29 to 121
3"	5,000	(345)	3" Flanged	4.2	(27.1)	140	(63.5)	-20 to 250	-29 to 121
3"	8,000	(552)	3" 1502 Weco	4.9	(31.6)	325	(147.4)	-20 to 250	-29 to 121
3"	8,000	(552)	3" Flanged	4.9	(31.6)	367	(166.5)	-20 to 250	-29 to 121

ITEM NO.	DESCRIPTION	OTECO PART NO.	WEIGHT	
			Lbs.	(kg)
1	BODY with 2" RRV LPT OUTLET, STANDARD	142100	12	(5.4)
	BODY with 2.06"-5,000# RJ FLANGED OUTLET, STANDARD	143055	41	(18.6)
	BODY with 2" FIGURE 1502 FEMALE OUTLET, SOUR GAS/STANDARD	142045	35	(15.9)
	BODY with 2" FIGURE 1502 MALE OUTLET, SOUR GAS/STANDARD	142046	35	(15.9)
2	SUB with 2.06"-5,000# RJ FLANGED INLET, STANDARD	142035	23	(10.4)
	SUB with 2" LPT INLET, STANDARD	142190	4	(1.8)
	SUB with 2" FIGURE 1502 FEMALE INLET, SOUR GAS/STANDARD	142036	9	(4.1)
	SUB with 2" FIGURE 1502 MALE INLET, SOUR GAS/STANDARD	142043	8	(3.6)
3	PISTON with BEARING ASSEMBLY, STANDARD	142110	1	(0.45)
	PISTON with BEARING ASSEMBLY, SOUR GAS	142028	1	(0.45)
4	CUSHION RING, (NBR) NITRILE, STANDARD	142130	0.5	(0.23)
	CUSHION RING, (HNBR) HYDROGENATED NITRILE, SOUR GAS	142132	0.5	(0.23)
5	OUTER RETAINER, STANDARD	142170	1	(0.45)
	OUTER RETAINER, SOUR GAS	143115	1	(0.45)
6	OUTER SEAL, (TVR), STANDARD	302762	0.5	(0.23)
	OUTER SEAL, (TFM), SOUR GAS	302769	0.5	(0.23)
7	COPPER GASKET	142150	0.1	(.05)
8	STEM BUSHING	142140	0.1	(.05)
9	1/2"-13UNC SOCKET HEAD CAP SCREW, CADMIUM, STANDARD	143310	0.1	(.05)
	1/2"-13UNC SOCKET HEAD CAP SCREW, CADMIUM, SOUR GAS	143311	0.1	(.05)
10	2" FMC UNION SEAL RING 602/1002/1502, (NBR) NITRILE, STANDARD	301921	0.1	(.05)
	2" FMC UNION SEAL RING 602/1002/1502, (VIT) VITON, SOUR GAS	302062	0.1	(.05)
FMC DETACHABLE NUT ASSEMBLY				
11	2" FIGURE 1502 UNION NUT, STANDARD/DETACHABLE, STANDARD, DNV	302626	6	(2.7)
	2" FIGURE 1502 UNION NUT, STANDARD/DETACHABLE, SOUR GAS, CHARPY	302071	6	(2.7)
12	2" FIGURE 1502 UNION NUT, RETAINER RING SEGMENTS, STANDARD, DNV	302627	0.5	(0.23)
	2" FIGURE 1502 UNION NUT, RETAINER RING SEGMENTS, SOUR GAS	302517	0.5	(0.23)
13	2" FIGURE 1502 UNION NUT, RETAINER SNAP RING, ALL ASSEMBLIES	301924	0.1	(.05)
FMC UNION WELDOLET ASSEMBLY (NOT INCLUDED WITH RRV ASSEMBLY)				
14	2" FIGURE 1502 with 2" BUTT WELD SCH.XXS, STANDARD, DNV	302037	12	(5.4)
REPAIR KITS				
	MINOR REPAIR KIT, STANDARD	143223	1	(0.45)
	MINOR REPAIR KIT, SOUR GAS	143225	1	(0.45)
	MAJOR REPAIR KIT, STANDARD	143218	3	(1.4)
	MAJOR REPAIR KIT, SOUR GAS	143226	3	(1.4)

Minor Repair Kit Contents	
Description	Assembly #
CUSHION RING	ITEM 4
OUTER SEAL	ITEM 6
COPPER GASKET	ITEM 7

Major Repair Kit Contents	
Description	Assembly #
PISTON	ITEM 3
CUSHION RING	ITEM 4
OUTER RETAINER	ITEM 5
OUTER SEAL	ITEM 6
COPPER GASKET	ITEM 7
STEM BUSHING	ITEM 8



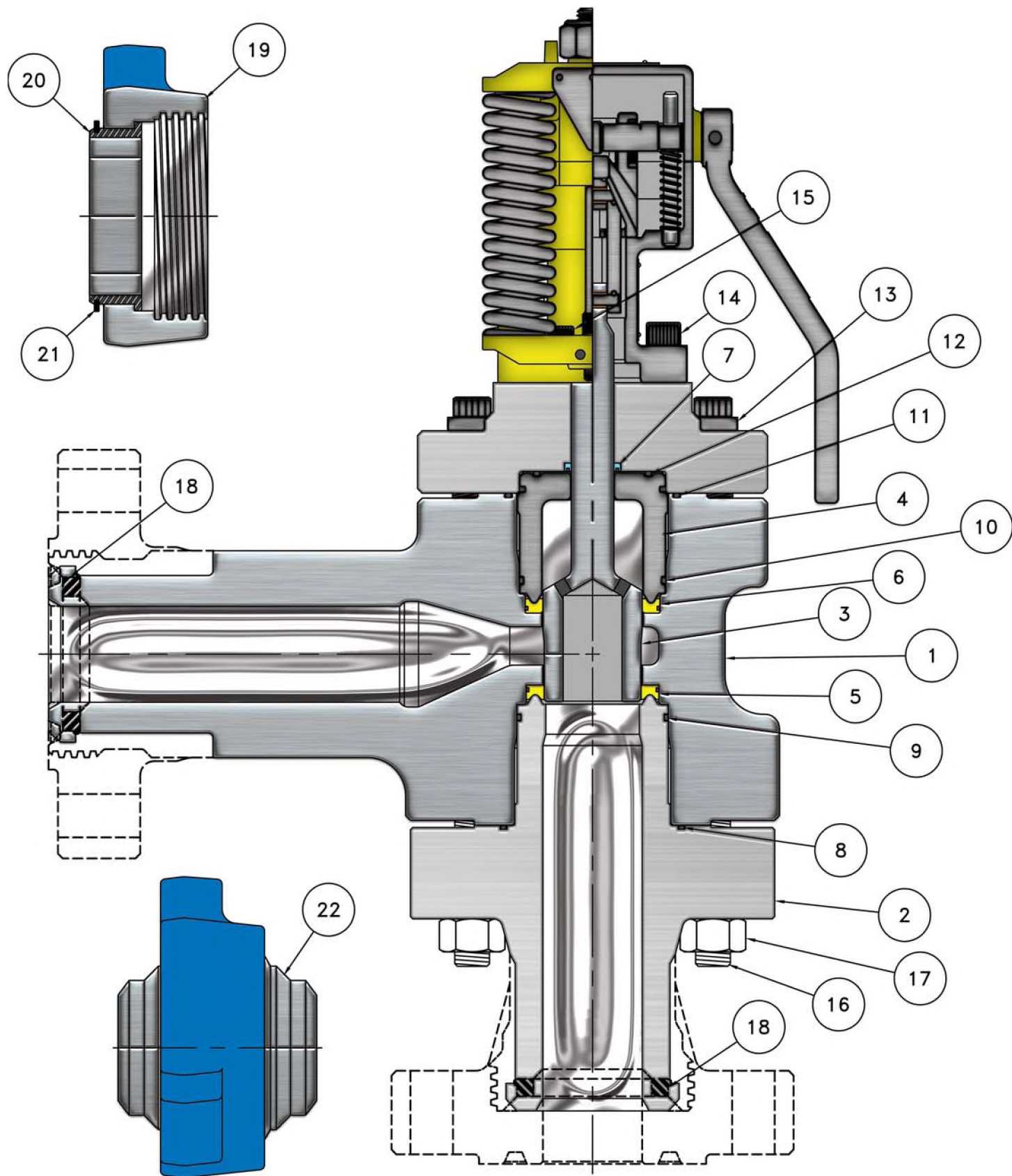
ITEM NO.	DESCRIPTION	OTECO PART NO.	WEIGHT Lbs.	(kg)
1	BODY with 3" LPT OUTLET, STANDARD	143100	39	(17.7)
	BODY with 3" LPT OUTLET, SOUR GAS	143189	39	(17.7)
	BODY with 3.125"-5,000# RJ FLANGED OUTLET, STANDARD, CHARPY	143019	57	(25.9)
	BODY with 3" FIGURE 1502 FEMALE OUTLET, STANDARD	143191	47	(21.3)
	BODY with 3" FIGURE 1502 MALE OUTLET, STANDARD	143192	47	(21.3)
2	SUB with 3" LPT INLET, STANDARD	143190	12	(5.4)
	SUB with 3" LPT INLET, SOUR GAS	143188	12	(5.4)
	SUB with 3.125"-5,000# RJ FLANGED INLET, STANDARD	143021	30	(13.6)
	SUB with 3" FIGURE 1502 FEMALE INLET, STANDARD	142038	20	(9.1)
	SUB with 3" FIGURE 1502 FEMALE INLET, SOUR GAS	143014	20	(9.1)
3	PISTON with BEARING ASSEMBLY, STANDARD	143110	2	(0.9)
	PISTON with BEARING ASSEMBLY, SOUR GAS	143007	2	(0.9)
4	CUSHION RING, (NBR) NITRILE, STANDARD	143130	0.5	(0.23)
	CUSHION RING, (HNBR) HYDROGENATED NITRILE, SOUR GAS	142131	0.5	(0.23)
5	OUTER RETAINER, STANDARD	143170	2	(0.9)
	OUTER RETAINER, SOUR GAS	143006	2	(0.9)
6	INNER RETAINER, STANDARD	143160	0.5	(0.23)
	INNER RETAINER, SOUR GAS	143010	0.5	(0.23)
7	OUTER SEAL, (TVR), STANDARD	302686	0.1	(.05)
	OUTER SEAL, (TFM), SOUR GAS	302767	0.1	(.05)
8	INNER SEAL, (TVR), STANDARD	302687	0.1	(.05)
	INNER SEAL, (TFM), SOUR GAS	302766	0.1	(.05)
9	SUB to BODY "O"-RING, (NBR) NITRILE, STANDARD	143150	0.1	(.05)
	SUB to BODY "O"-RING, (VIT) VITON, SOUR GAS	143151	0.1	(.05)
10	STEM BUSHING	143140	2	(09)
10A	STEM to STEM BUSHING "O"-RING, (NBR) NITRILE, STANDARD	302752	0.1	(.05)
10B	STEM BUSHING to BODY "O"-RING, (NBR) NITRILE, STANDARD	302750	0.1	(.05)
11	1/2"-13UNC SOCKET HEAD CAP SCREW, CADMIUM, STANDARD	143312	0.1	(.05)
12	3" FMC UNION SEAL RING 602/1002/1502, (NBR) NITRILE, STANDARD	301862	0.1	(.05)
	3" FMC UNION SEAL RING 602/1002/1502, (VIT) VITON, SOUR GAS	302542	0.1	(.05)
FMC DETACHABLE NUT ASSEMBLY				
13	3" FIGURE 1502 UNION NUT, STANDARD/DETACHABLE, STANDARD, DNV	302625	12	(5.4)
	3" FIGURE 1502 UNION NUT, STANDARD/DETACHABLE, SOUR GAS, CHARPY	302540	12	(5.4)
14	3" FIGURE 1502 UNION NUT, RETAINER RING SEGMENTS, STANDARD, DNV	302628	0.5	(0.23)
	3" FIGURE 1502 UNION NUT, RETAINER RING SEGMENTS, SOUR GAS	302541	0.5	(0.23)
15	3" FIGURE 1502 UNION NUT, RETAINER SNAP RING, ALL ASSEMBLIES	301515	0.1	(.05)
FMC UNION WELDOLET ASSEMBLY (NOT INCLUDED WITH RRV ASSEMBLY)				
16	3" FIGURE 1502 with 3" BUTT WELD SCH.XXS, STANDARD, DNV	302036	25	(11.3)
REPAIR KITS				
	MINOR REPAIR KIT, STANDARD	143215	1	(0.45)
	MINOR REPAIR KIT. SOUR GAS	143219	1	(0.45)
	MAJOR REPAIR KIT, STANDARD	143216	3	(1.4)
	MAJOR REPAIR KIT, SOUR GAS	143217	3	(1.4)

Minor Repair Kit Contents

Description	Assembly #
CUSHION RING	ITEM 4
OUTER SEAL	ITEM 7
INNER SEAL	ITEM 8
"O"-RING	ITEM 9

Major Repair Kit Contents

Description	Assembly #	Description	Assembly #
PISTON	ITEM 3	OUTER SEAL	ITEM 7
CUSHION RING	ITEM 4	INNER SEAL	ITEM 8
OUTER RETAINER	ITEM 5	rO"-RING	ITEM 9
INNER RETAINER	ITEM 6	STEM BUSHING	ITEM 10



ITEM NO.	DESCRIPTION	Standard	Sour Gas	WEIGHT	
		8K	8K/10K	Lbs.	(kg)
1	BODY with 3" FIGURE 1502 FEMALE OUTLET	143083	143087	160	(72.6)
	BODY with 3" FIGURE 1502 MALE OUTLET	143081	143085	160	(72.6)
	BODY with 3.06"-10,000# RJ FLANGED OUTLET	143086	143090	181	(82.1)
2	SUB with 3" FIGURE 1002 FEMALE INLET	143196		59	(26.8)
	SUB with 3" FIGURE 1502 FEMALE INLET	143199	143231	59	(26.8)
	SUB with 3.06"-10,000# FLANGED INLET	143198	143232	80	(36.3)
3	PISTON with BEARING ASSEMBLY	143185	143228	4	(1.81)
4	SEAL RETAINER	143035	143035	4	(1.81)
5	LOWER SEAL, (UHMWPE), STANDARD, 8K/10K	302686	302686	0.1	(.05)
	LOWER SEAL, (TFM), SOUR GAS, 8K/10K	302767	302767	0.1	(.05)
6	MIDDLE SEAL, (UHMWPE), STANDARD, 8K/10K	302689	302689	0.1	(.05)
	MIDDLE SEAL, (TFM), SOUR GAS, 8K/10K	302768	302768	0.1	(.05)
7	UPPER SEAL, (F1504) FLOUROTRELL	302636	302636	0.1	(.05)
8	SUB FACE to BODY SEAL, "CT-RING #247	302428	302714	0.1	(.05)
9	SUB O.D. TO BODY SEAL, "O"-RING #240	302427	302713	0.1	(.05)
10	RETAINER to BODY SEAL, "Cf-RING #239	302634	302717	0.1	(.05)
11	BODY to TOP FLANGE SEAL, "O"-RING #245	302610	302715	0.1	(.05)
12	RETAINER to TOP FLANGE SEAL, "O"-RING #233	302611	302716	0.1	(.05)
13	7/8"-9UNC FLANGED 12 POINT BOLT	302613	302613	0.5	(0.23)
14	5/8"-11UNC SOCKET HEAD CAP SCREW, CADMIUM	302470	302470	0.5	(0.23)
15	1/2"-13UNC SOCKET HEAD CAP SCREW, CADMIUM	302495	302495	0.5	(0.23)
16	1"-8UNC STUD, CADMIUM	302472	302472	0.5	(0.23)
17	1"-8UNC HEX NUT, CADMIUM	302471	302471	0.5	(0.23)
18	3"FMC UNION SEAL RING 602/1002/1502	301862	302542	0.1	(.05)
FMC DETACHABLE NUT ASSEMBLY					
19	3" FIGURE 1502 UNION NUT, STANDARD/DETACHABLE	302625	302540	12	(5.4)
20	3" FIGURE 1502 UNION NUT, RETAINER RING SEGMENTS	302628	302541	0.5	(0.23)
21	3" FIGURE 1502 UNION NUT, RETAINER SNAP RING	301515	301515	0.1	(.05)
FMC UNION WELDOLET ASSEMBLY (NOT INCLUDED WITH RRV ASSEMBLY)					
22	3" FIGURE 1502 with 3" BUTT WELD SCH.XXS	302036		25	(11.3)
REPAIR KITS					
	MINOR REPAIR KIT	143227	143230	1	(0.45)
	MAJOR REPAIR KIT	143221	143229	5	(2.27)



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